

EXHIBIT B

STATEMENT OF WORK

Title: 480V 150 KVA Uninterruptible Power Supply for 102C U1a Underground Drift

Requisition Number: 0013363

SOW Revision Number: 0

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List of Acronyms

Acronym	Definition
ACM	Asbestos Containing Material
CAP	Contractor Acquired Property
CM	Construction Manager
EPP	Environmentally Preferable Products
ES&H	Environmental Safety and Health
GFE	Government Furnished Equipment
GFP	Government Furnished Property
LAO	Los Alamos Operations at Los Alamos, NM
LO	Livermore Operations at Livermore, CA
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
PULSE	Primary Underground Laboratory Subcritical Experimentation.
RCM	Radiological Control Manual
RGD	Radiation-Generating Devices
RPP	Radiation Protection Program
RSLA	Remote Sensing Lab at Andrews AFB, Maryland
RSLN	Remote Sensing Lab at Nellis AFB, North Las Vegas, NV
RWP	Radiological Work Permit
SME	Subject Matter Expert
SSSP	Site-Specific Safety Plan
STL	Special Technologies Lab at Santa Barbara, CA
STR	Subcontract Technical Representative
UCEP	U1a Complex Enhancements Project
UPS	Uninterruptible Power Supply

B-1 INTRODUCTION AND BACKGROUND

1. Introduction

The Nevada National Security Sites (NNSS) is a U.S. Department of Energy, National Nuclear Security Administration (NNSA) installation, operated by Mission Support and Test Services, LLC (MSTS or CONTRACTOR), comprising approximately 3,561 square kilometers (1,375 square miles) of federally owned land located in southeastern Nye County, Nevada. Located approximately 105 kilometers (65 miles) northwest of Las Vegas, Nevada, the NNSS is accessed from U.S. Highway 95, which roughly forms the southern boundary of the site.

The MSTS also operates the North Las Vegas Facility (NLV); the Remote Sensing Lab at Nellis AFB, North Las Vegas, NV (RSLN); the Remote Sensing Lab at Andrews AFB, Maryland (RSLA); Special Technologies Lab at Santa Barbara, CA (STL); Livermore Operations at Livermore, CA (LO); and Los Alamos Operations at Los Alamos, NM (LAO).

2. Background

This SUBCONTRACTOR shall provide a 480V, 150 KVA Uninterruptible Power Supply (UPS), including batteries and delivery. In addition, the work shall include the provision of on-site and off-site technical support to assist in installation, start-up, testing, and commissioning of the unit.

The UPS4 is used to provide backup power to the Injector Skids and the Injector Skid Cryogenic Compressor.

The UPS under this request shall support the U1a underground complex in drift 102C for the U1a Complex Enhancements Project (UCEP).

B-2 OBJECTIVE

MSTS (hereby CONTRACTOR) requires the services of an experienced SUBCONTRACTOR to provide the equipment, batteries, and delivery of a 480V, 150 KVA UPS, labelled with Tag Number 480-UPS-805. In addition, MSTS requires technical services in support of installation, testing, and commissioning of the unit. Technical support services shall consist of advisory assistance only. No hands-on work shall be performed by the SUBCONTRACTOR. All installation of the UPS and its associated components will be performed by CONTRACTOR.

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 independently 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.

The work scope for this activity includes the resources, material and/or equipment necessary to accomplish the following MSTS activities:

The SUBCONTRACTOR shall procure the necessary UPS components and equipment (hereby "Components", including verification that such Components meet the requirements described in Appendix B, Specification No. 17-0-106 and Appendix C, Data Sheet No. DS-480-UPS-805.

In addition, the SUBCONTRACTOR shall provide technical support to assist CONTRACTOR with installation of the Components, start-up and testing, troubleshooting guidance, as well as commissioning once installed.

1. Task(s)

1.1. Task One: Procurement, Validation and Delivery of Components

The SUBCONTRACTOR shall procure the UPS equipment listed in the chart below, including ensuring the components are assembled into a functioning system (*Reference Specification No. 17-0-106 for all requirements*):

Item #	Tag Number	Equipment Type	Equipment Description	Location	QTY
1	480-UPS-805 (UPS4)	UPS	480V 3-phase input/480V 3-phase output Uninterruptible Power Supply (UPS). 150kVA N+1 configuration.	Underground (Below surface), drift 102	1
2	486-BAT-805	Battery Cabinet	486 VDC* Valve-regulated Lead Acid (VRLA) batteries per load profile shown on DS-480-UPS-805 <i>*Actual voltage may vary by manufacturer; to be approved during proposal review process</i>	Underground (Below surface), drift 102C Battery Room	1
3	NA	Power Quality Module	Power Quality Module suitable for the application, <i>to be approved during proposal review process</i>	Underground (Below surface), drift 102C Battery Room	1
4	NA	Bypass Input Circuit Breaker	Bypass Input Circuit Breaker, <i>to be approved during proposal review process</i>	Underground (Below surface), drift 102C Battery Room	1
5	NA	Battery Disconnect	Battery Disconnect, <i>to be approved during proposal review process</i>	Underground (Below surface), drift 102C Battery Room	1

The SUBCONTRACTOR shall propose for CONTRACTOR's approval, a battery string segmentation methodology to allow separating battery string segments into <50 VDC sections while maintaining the performance required.

In addition, the SUBCONTRACTOR shall comply with the following:

- 1.1.1. Within ten (10) calendar days after subcontract award, the SUBCONTRACTOR shall submit a detailed project schedule for review and approval. The schedule shall outline all phases of performance, including but not limited to: engineering submittals, material procurement, equipment manufacturing, Factory Acceptance Testing (FAT), logistics and site delivery, on-site installation technical advisory, pre-commissioning, functional testing, and final system commissioning.
- 1.1.2. All Components shall be free of manufacturing defects, visible physical damage, and shall be in new condition.
- 1.1.3. All Components shall legibly show the Component part number/Tag Number on either the part or the packaging.
- 1.1.4. The SUBCONTRACTOR shall ensure the configuration of all components meet the seismic requirements of Appendix C, Data Sheet No. DS-480-UPS-805.
- 1.1.5. The SUBCONTRACTOR shall provide design criteria for the anchor bolts, to ensure the seismic requirements of Appendix C, Data Sheet No. DS-480-UPS-805 and support installation in 5000 PSI concrete.

All anchor material shall be provided by the SUBCONTRACTOR.
- 1.1.5. The SUBCONTRACTOR shall submit its Factory Acceptance Test (FAT) plan for CONTRACTOR review and approval. The SUBCONTRACTOR shall conduct the FAT prior to shipment, as described in Section 2.11.5. of Appendix B, Specification No. 17-0-106, and submit complete, certified test reports for CONTRACTOR'S approval.
- 1.1.6. The SUBCONTRACTOR shall provide a detailed description of the system's operating software configuration as tested.

1.2. Task Two: Advisory and Technical Assistance

The SUBCONTRACTOR shall provide onsite as well as off-site (remote) technical advisory support during the CONTRACTOR assembly, installation, startup, and commissioning phases of the project.

Remote support shall consist of providing response to questions, technical input, advice, and guidance. This shall include the provision of post-installation technical support through the duration of the Component warranty period.

Onsite Support shall consist of on-site personnel to provide technical oversight, guidance, issue resolution, and advice during the installation, testing, and commissioning activities.

All technical support shall be advisory only. No contact or physical work shall be permitted under this Subcontract.

1.3. Task Three: Submittal Documents

The SUBCONTRACTOR shall ensure all documents and submittals are provided in accordance with Appendix A, Submittal Register.

Work shall be performed in accordance with the Subcontract and SUBCONTRACTORS Quality Assurance program.

2. Acceptance Criteria

Work products and services provided shall meet all applicable MSTS procedures for control and review of work products and pertinent regulatory requirements, as required by this subcontract and incorporated provisions.

Further specific Acceptance Criteria applicable to this scope includes The Subcontractor shall ensure all Components provided are free of manufacturing defects, visible physical damage, in new condition, and are properly labeled with the respective part/tag number.

All components shall meet the seismic requirements as specified.

The SUBCONTRACTOR shall provide qualified on-site and off-site technical advisory support. Support personnel shall have demonstrated experience installing the Components provided (or equivalent components of identical fit, form, and function) and must possess the comprehensive technical and operational knowledge required to assist the CONTRACTOR with failure analysis and resolution.

The Subcontractor shall ensure all Submittals are clear, concise, complete, and are provided in accordance with the Subcontract, SOW and its associated documentation, and Schedule.

B-4 PERSONNEL REQUIREMENTS

1. Training

The SUBCONTRACTOR and its personnel will be required to attend the following site-specific training in the course of this work scope.

NOTE: Site access may be delayed until training is complete or renewed. The SUBCONTRACTOR shall contact the Subcontract Technical Representative (STR) to coordinate scheduling of training. See Section B-6, item 4, *Badging*.

DESCRIPTION	DURATION	FREQUENCY
NNSS Site Access Safety Orientation (1E00W102)	0.5 Hours	One time only
General Employee Radiological Training (GERT) (WBT) (1E00W585)	0.5 Hours	One time only
Protective Actions – How to Act During an Emergency (WBT) (1REMPAW1)	0.5 Hours	One time only

The SUBCONTRACTOR shall maintain training records for their personnel and ensure all required training is completed prior to start of work. Additionally, as soon as practical after award, the SUBCONTRACTOR shall submit a badge request for personnel required under the various releases so that they may be scheduled for training and medical evaluation so that crews will be eligible for work on site.

2. Qualifications, Licensing and Certifications

The SUBCONTRACTOR shall ensure that its personnel meet and maintain the appropriate training, qualifications, licensing, and certification requirements to perform the work as specified in this Statement of Work (SOW). The SUBCONTRACTOR shall provide appropriately trained and qualified staff to perform the type of work in accordance with the specifications, exhibits, and other documents, which are made by reference, and part of this SOW. Additionally, the SUBCONTRACTOR shall perform work in accordance with the specifications, exhibits, and other documents, which are made by reference, and are a part of the SOW.

In order to determine if the SUBCONTRACTOR is qualified to perform the scope of work as outlined, the SUBCONTRACTOR must have the following qualifications:

- The SUBCONTRACTOR must be an Original Equipment Manufacturer (OEM) or a factory-authorized integrator, distributor, or partner of the equipment being procured.
- The SUBCONTRACTOR shall possess a minimum of five (5) years of experience in procuring, configuring, and testing industrial-grade UPS systems of similar scale and complexity.

- The SUBCONTRACTOR'S personnel, assigned to support technical advisory services, shall possess a minimum of five (5) years of experience in executing projects where they successfully acted in an "Owner's Engineer" or "Technical Advisor" capacity, without performing any physical, craft-level, or hands-on labor.

In addition to the above, the SUBCONTRACTOR shall provide qualified personnel throughout the period of performance of the Subcontract. SUBCONTRACTOR shall be responsible for ensuring its personnel meet and/or maintain current and valid training requirements, certifications, and are fully capable of completing the duties described through the entirety of the Subcontract period of performance.

3. Key Personnel Qualifications

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.

- **Project/Program Manager(s)**
 - *Responsibility:* Responsible for the oversight, delivery, and successful performance of the Subcontract. Acts as primary Point of Contact (POC) for management of the work.
 - *Qualifications:* Minimum of five (5) years executing projects of similar scope and complexity.
- **Technical Advisor**
 - *Responsibility:* Provide on-site and off-site technical advisory assistance
 - *Qualifications:* Minimum of five (5) years, acting in an "Owner's Engineer" or "Technical Advisor" capacity, executing projects of similar scope and complexity. Technical advisory support shall be led by a qualified Electrical Engineer or an OEM-certified Field Representative with at least five (5) years of field experience in UPS commissioning.

B-5 TECHNICAL REQUIREMENTS

The SUBCONTRACTOR shall perform in accordance with the terms and conditions of this contract, MSTS internal policies and procedures, and quality assurance provisions, including safety programs, laws, orders, permits, rules, confidentiality of information and intellectual property safeguards. In addition, 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.

1. Specifications

SPEC NUMBER	TITLE	REV	PAGES
17-0-106	Uninterruptible Power Supply and Batteries Specification	1	44
21-0-001	Site Conditions Specifications	0	11

2. Drawings

DRAWING NUMBER	TITLE	REV	PAGES
01889-E-6234	U/G Standby Power Drift U1a.102 480-UPS-805 (UPS4) Single Line Diagram	1	2

DRAWING NUMBER	TITLE	REV	PAGES
DS-480-UPS-805	480-UPS-805 Uninterruptible Power Supply (UPS4)	1	6

B-6 PLACE OF PERFORMANCE

1. Delivery Location

Initial Delivery Location: SUBCONTRACTORS facility

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

2. Work Location

Work will be performed at the SUBCONTRACTORS location as well as U1a Underground Complex, Drift 102C Principal Underground Laboratory for Subcritical Experimentation (PULSE).

For any work performed on the NNSS site or in an MSTS controlled facility, the provision of the On-Site services shall apply to this subcontract.

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.

3. Site Access and Work Hours

MSTS personnel at the NNSS work a standard 4/10 schedule. The standard work week consists 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 required to be performed outside normal operating hours shall be coordinated and/or approved through the STR and/or the Procurement Specialist prior to performing work.

Include the specific work location(s) for the performance and any access requirements. (e.g., "The work will be conducted at the subcontractor's place of business with no NNSS visits or list the specific work locations). If none of these are applicable, delete this paragraph.

4. Badging

Any onsite work shall 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. The SUBCONTRACTOR shall wear a Contractor issued security badge identifying themselves. A minimum of two (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 ([ProhibitedControlledArticlesPolicy.pdf](#)).

B-7 CLEARANCE REQUIREMENTS

The following access authorization or clearance requirements are required.

1) Check all that apply:

- No security clearance; unclassified work
- DOE L
- DOE Q
- HSPD-12 PIV Credential

2) If applicable, add any or all parts of the following statement security qualifications:

- The SUBCONTRACTOR shall have the ability to obtain a U.S. Department of Energy (DOE) facility security clearance and have personnel capable of obtaining a Q-type or L-type security clearance.
- Q- or L-type security clearance is required for all SUBCONTRACTOR personnel having access to classified information or special nuclear material when performing such work.
- A corresponding level of security clearance from another federal agency may be applicable if approved by the MSTS and DOE.
- N/A

B-8 SPECIAL REQUIREMENTS

1. Government Assets

Use of Government Vehicles	
<input checked="" type="checkbox"/>	There is NO anticipated need for any SUBCONTRACTOR employees to use a Government-furnished vehicle in the performance of this SOW. The SUBCONTRACTOR's employees, therefore, are specifically prohibited from driving any Government-furnished vehicles under the performance of this SOW unless this SOW is formally modified by the parties and the employee(s) will present a valid driver's license to the STR for review.
<input type="checkbox"/>	One or more SUBCONTRACTOR employees will have access to Government-furnished vehicles while performing this SOW.
Government Property	
<input checked="" type="checkbox"/>	Government Property NOT anticipated to be furnished to or acquired by the SUBCONTRACTOR under this SOW.
<input type="checkbox"/>	Pursuant to Federal Acquisition Regulation (FAR) 52.245.1 – Government Property, the following Government-owned property will be furnished to the SUBCONTRACTOR. The SUBCONTRACTOR shall be responsible for managing the Government-Furnished Property (GFP) below and/or Contractor-Acquired Property (CAP) as required in accordance with FAR 52.245-1. A list of the property to be furnished to the SUBCONTRACTOR can be found in Appendix Choose an item, along with any special technical and/or handling instructions.

2. Quality Assurance (QA)

The work as described has been identified to be.	
<input type="checkbox"/>	<p>SAFETY CLASS/SAFETY SIGNIFICANT SERVICES AND/OR COMMODITIES (NUCLEAR/RADIOLOGICAL)</p> <p>This PO is related to items or services used in support of the nuclear and/or radiological mission(s) of the Nevada National Security Site, therefore:</p> <p>The SUBCONTRACTOR shall implement and maintain a Quality Assurance (QA) program in accordance with at least one the following quality assurance criteria and requirements:</p> <ul style="list-style-type: none"> • ASME NQA-1 (2015) quality assurance requirements for nuclear facility applications

	<ul style="list-style-type: none"> ASME NQA-1 (2008 with 2009 addenda) quality assurance requirements for nuclear facility applications Equivalent program authorized in writing by the contractor's quality assurance organization <p>In addition, the SUBCONTRACTOR shall be responsible for:</p> <p>Price Anderson Amendments Act (PAAA)</p> <p>The item or service identified in the purchase order agreement is being procured by a contractor to the Department of Energy (DOE)/National Nuclear Security Administration (NNSA). This item or service is intended to be used in the performance of activities that (1) prevent or mitigate radiological or harm to the worker, the public or the environment or (2) provide a healthful and safe workplace for DOE/NNSA contractor personnel. Therefore, the SUBCONTRACTOR is responsible for assuring that the items or services provided under this purchase agreement meet the stated requirements.</p>
<input checked="" type="checkbox"/>	<p><u>GENERAL SERVICES AND/OR COMMODITIES</u></p> <p>This subcontract is for items or services that support the mission(s) of the Nevada National Security Sites, therefore:</p> <p>SUSPECT/COUNTERFEIT ITEMS REQUIREMENTS:</p> <p>The SUBCONTRACTOR will take positive measures to ensure that only new, unused equipment/material from acceptable sources is provided under this subcontract. Notwithstanding any other provisions of this subcontract, should any suspect/counterfeit items or components be found within or on this equipment during contractor receipt inspection, SUBCONTRACTOR shall, at its expense, promptly replace such items or components.</p> <p>These requirements shall be flowed down to all levels of subcontractors as they pertain to this procurement activity.</p>

B-9 ENVIRONMENTALLY PREFERABLE PRODUCTS

MSTS is required by the U.S. Department of Energy to purchase Environmentally Preferable Products (EPP) (also known as green or sustainable purchasing) and are also required to flow those procurement requirements to their SUBCONTRACTOR. When designing materials and/or supplying materials to be used onsite as part of a subcontract SOW, those materials must meet these same requirements.

The following is a list of EPP types that must be used if they are available:

- Products with Recycled Content.** MSTS supports efforts that reduce or eliminate environmental hazards, conserve environmental resources, minimize life-cycle cost and liabilities. Towards the end, the acquisition cycle is viewed as an important key in understanding what is brought onto the Site as well as identifying what can be reused/recycled. Focus is directed on recycled-content, biobased-content, ozone-depleting substances, and other environmental impacts. Specific additional clauses are included in this solicitation that address potential requirements and preferences based on the nature of the item being considered for purchase.
- Water Efficient Plumbing Products.** When purchasing commercially available, off-the-shelf water consuming products, products must meet EPA's WaterSense standards (<http://www.epa.gov/watersense>).
- Non-Toxic or Less Toxic Alternatives**

- **Green Certified Products.** (e.g., Design for Environment, Green Seal)
- **Bio-Based Products.** MSTS will give preference to acquiring Department of Agriculture designated biobased products. For more information to this program, see www.biopreferred.gov.
- **Energy Efficient Products.**
 - EPA Energy Star® When purchasing commercially available, off-the-shelf energy-consuming products, products must be Energy Star rated (www.energystar.gov).
 - Federal Energy Management Program designated products, When purchasing commercially available, off-the-shelf energy-consuming products, products must use no more than one watt of standby power as defined and measured by International Electrotechnical Commission (IEC) code 62301 or otherwise met [FEMP specifications](#) for low standby power consumption. If FEMP has not specified a standby power level for a product category, the item shall be the lowest standby power consumption available.
- **Energy Efficient Electronics.** When purchasing the following products, EPEAT ratings will apply:
 - Desktop and Notebook Computers – must meet the EPEAT silver rating or higher
 - Displays, Monitors, Integrated Desktop Computers, Workstation Desktops, Thin Client, Workstation Notebooks, and/or Tablet Notebooks – must meet the EPEAT silver rating or higher
 - Fax Machines, Multifunction Devices, and Printers – must meet the EPEAT bronze rating or higher
 - Copiers and Digital Duplicators – must meet the EPEAT silver rating or higher
- **Reuse of Leased IT Electronic Equipment** In accordance with DOE Order 436.1, Departmental Sustainability, MSTS is striving to reduce or eliminate environmental hazards, conserve environmental resources, minimize life-cycle cost and maximize operational sustainability through the incorporation of electronics stewardship practices thereby minimizing the economic and environmental impacts of managing toxic by-products and hazardous wastes generated in the conduct of site activities. Therefore, MSTS requires that at the end of the lease period, the equipment is to be reused, refurbished, donated, or recycled using environmentally sound management practices.

B-10 MEETINGS

After subcontract award, a Subcontract Kickoff Meeting may be 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 designated Subcontract Technical Representative (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.

FREQUENCY	DURATION	TITLE	DESCRIPTION / PURPOSE
Once	1 hour	Kick-Off 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 discussed. The SUBCONTRACTOR shall prepare meeting minutes that emphasize agreements, commitments, and planned actions.
Weekly	30 Minutes	Status Meeting	Project status meetings will be held weekly either by MSTs 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, 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 Submittal Register.

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

1. Meeting Minutes

B-13 APPENDIX

<i>APPENDIX NUMBER</i>	<i>TITLE</i>	<i>REV</i>	<i>PAGES</i>
Appendix A	Submittal Register	<i>Rev #</i>	<i>Pages</i>
Appendix B	Specification No. 17-0-106	<i>1</i>	<i>44</i>
Appendix C	Data Sheet No. DS-480-UPS-805	<i>1</i>	<i>6</i>
Appendix D	Site Conditions Specification No. 21-01-001	<i>0</i>	<i>11</i>
Appendix E	U/G Standby Power Drift U1a.102 480-UPS-805 (UPS4) Single Line Diagram	<i>1</i>	<i>2</i>

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>480V, 150 KVA Uninterruptible Power Supply for 102C U1a Underground Drift</i>			
Purchase Order and Release Number: <i>TBD</i>		Requisition Number: <i>0013363</i>			
Section B: Submittal Delivery Requirement					
Submittals shall be electronically, unless otherwise noted, to: <i>Procurement Specialist; Insert email address and Subcontract Technical Representative; Insert email address</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>1.1.1</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.	Installation and Operation manual	<i>17-0-106</i>	No later than 10 calendar days from date of award	ProcRep STR	
003.	Quality Plan	<i>17-0-106</i>	No later than 10 calendar days from date of award	ProcRep STR	
004.	Dimension Record	<i>17-0-106</i>	No later than 20 calendar days from date of award	ProcRep STR	
005.	Inspection and Test Plan	<i>17-0-106</i>	No later than 20 calendar days from date of award	ProcRep STR	
006.	Battery Charge/Discharge Curves	<i>17-0-106</i>	No later than 20 calendar days from date of award	ProcRep STR	
007.	Cables Schedule	<i>17-0-106</i>	No later than 20 calendar days from date of award	ProcRep STR	
008.	Electrical Equipment Datasheet	<i>17-0-106</i>	No later than 30 calendar days from date of award	ProcRep STR	

**APPENDIX A
SUBMITTAL REGISTER**

Section A: Purchase Order/Subcontract Information

Subcontractor Name:	TBD	SOW Title:	480V, 150 KVA Uninterruptible Power Supply for 102C U1a Underground Drift
Purchase Order and Release Number:	TBD	Requisition Number:	0013363

Section B: Submittal Delivery Requirement

Submittals shall be electronically, unless otherwise noted, to: *Procurement Specialist; Insert email address and Subcontract Technical Representative; Insert email address*
Insert any special notes. DO NOT INCLUDE internal distribution notes.

Section C: Submittal Requirement Details

NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
009.	Electrical Equipment Dimension Outline Drawings	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
010.	Electrical Equipment Layout Drawing	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
011.	Electrical Schematic Diagram	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
012.	Electrical Wiring & Connection Diagram	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
013.	Nameplates Schedule	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
014.	Protection and Control Drawings & Setting Files	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
015.	Single-Line Diagrams	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
016.	UPS Shutdown	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
017.	Wiring and Termination Drawings	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
018.	Electrical Bill of Materials (BOM)	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	

**APPENDIX A
SUBMITTAL REGISTER**

Section A: Purchase Order/Subcontract Information

Subcontractor Name:	TBD	SOW Title:	480V, 150 KVA Uninterruptible Power Supply for 102C U1a Underground Drift
Purchase Order and Release Number:	TBD	Requisition Number:	0013363

Section B: Submittal Delivery Requirement

Submittals shall be electronically, unless otherwise noted, to: *Procurement Specialist; Insert email address and Subcontract Technical Representative; Insert email address*
Insert any special notes. DO NOT INCLUDE internal distribution notes.

Section C: Submittal Requirement Details

NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
019.	Installation Instructions	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
020.	Start-up Software	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
021.	Training Materials	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
022.	Factory Acceptance Test Procedure	17-0-106	No later than 30 calendar days from date of award	ProcRep STR	
023.	Factory Acceptance Test Report	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
024.	Performance Test Procedures	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
025.	Electrical Inspection Circuit Breakers Quality Records	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
026.	Electrical Transformer Inspection Quality Records	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
027.	Centre of Gravity Report	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
028.	Anchor Bolt SPECIFICATION and Layout	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	

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Section C: Submittal Requirement Details

NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
029.	Spare Parts List	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
030.	Warranty Statement	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
031.	Hardwired/Soft I/O List	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
032.	UL9540A Test Results (conducted by UL)	17-0-106	No later than 20 calendar days prior to shipment	ProcRep STR	
033.	Subcontract Hours, FRM-1253	Exhibit E	Upon the completion of work AND prior to leaving the worksite	STR	

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