

APPROVALS	PRINT NAME	SIGNATURE
BTR*	Brett Klinetobe	
CAM / Project Controls**	Paul Pearson	
Contracting Officer***		

\* Approval for technical content \*\* Approval for funding availability \*\*\*Approval for contractibility

**TABLE OF CONTENTS**

1.0 INTRODUCTION / BACKGROUND..... 3

2.0 DESCRIPTION OF WORK – GENERAL..... 3

3.0 DESCRIPTION OF WORK – SPECIFIC ..... 3

    3.1 Task Description..... 3

    3.2 Special Requirements ..... 4

    3.3 Acceptance Criteria..... 4

    3.4 Organizational Interfaces..... 4

    3.5 Work Not Included..... 4

    3.6 Construction Facilities and Temporary Controls ..... 4

    3.7 Buyer Furnished Materials and Equipment..... 4

    3.8 Site Conditions and Known Hazards..... 4

    3.9 Site Coordination Requirements ..... 5

    3.10 Request for Clarification (RCI)..... 5

4.0 TECHNICAL REQUIREMENTS..... 5

    4.1 Work Location / Access Requirements (if applicable) ..... 6

    4.2 Work Control Requirements..... 6

5.0 PERSONNEL REQUIREMENTS ..... 6

    5.1 Training and Qualification..... 6

    5.2 Site Access and Work Hours ..... 7

6.0 ENVIRONMENTAL, SAFETY, HEALTH, AND QUALITY REQUIREMENTS ..... 7

    6.1 Environmental..... 8

    6.2 Safety and Health..... 8

**CPCCo STATEMENT OF WORK**

**Installation of Pole Mounted Transformer and Electrical Tie-in of MO2199**

---

6.2.1 Electrical Safety Requirements ..... 8

6.2.2 Hazard Identification ..... 9

6.3 Quality Assurance and Control..... 9

7.0 MEETINGS and SUBMITTALS ..... 9

7.1 Meetings..... 9

7.2 Submittals..... 9

7.3 Project Documents / Records .....10

8.0 DELIVERABLES, PROJECT CONTROLS, MILESTONES, AND PERFORMANCE SCHEDULE  
REQUIREMENTS..... 13

### **1.0 INTRODUCTION / BACKGROUND**

This Statement of Work (SOW) is issued for the installation of pole mounted transformer and conductors to MO2199 office trailer electrical distribution panel in support of the CPCCo Central Plateau Cleanup Company (CPCCo) Project in the 200 West Area of the Hanford Site. CPCCo is a prime contractor to the Department of Energy (DOE) and all work on this Statement of Work will be performed in support of the CPCCo contract with DOE.

### **2.0 DESCRIPTION OF WORK – GENERAL**

Contractor employee(s) 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 and in accordance with all provisions of the contract.

### **3.0 DESCRIPTION OF WORK – SPECIFIC**

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

- Provide and install CT meter base on rack #3
- Install new transformer (1) switch and conductors in rigid conduit to the main distribution panel to the trailers and approximately 49' of 3" rigid conduit and conductors.
- Provide and install distribution and Hoffa boot racks with switch gear. Per ECR-21-000615.

Resources covered in this SOW include Teamsters, Laborers, Carpenters, Operators, Electricians, and Linemen etc.

#### **3.1 Task Description**

The work products and services to be provided, including any specific CPCCo standards and requirements, required for the successful completion of this work activity include all work associated with this SOW and in accordance with Engineering Change Request (ECR-21-000615) to follow, Installation of pole mounted transformer and electrical tie at MO2199 trailer distribution rack in 200 West area work scope for the CPCCo (Central Plateau Cleanup Company) project activities.

- Task 1 – Contractor shall procure all necessary materials to provide electrical tie in to trailers main electrical distribution rack.
  - All electrical construction shall be in accordance with ECR-20-000796 (to follow) and NEC requirements.
    - Provide and install new **600 KCMILS** transformer mounted on Pole designated in ECR-21-000615 (to follow)
    - Run electrical power form transformer to first disconnect switch near power pole. Conductors from first disconnect switch to trailer main service rack. All conductors shall be run in rigid metal conduit.
    - Conductors in rigid metal conduit shall be routed below grade Per NEC code

- Proved all pole prep work and materials for utilities tie-in and/or pole transformer replacement shall be performed by EU.
- Final electrical tie-in will be coordinated and performed by EU.

### **3.2 Special Requirements**

Contractor shall perform and complete the work scope in accordance with this SOW, Job Control System (JCS) Work Packages, and any applicable facility work control processes.

### **3.3 Acceptance Criteria**

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

### **3.4 Organizational Interfaces**

The Contractor shall interface with various CPCCo (and other) organizations through the CPCCo Contract Specialist (or designee), as required.

### **3.5 Work Not Included**

Work not included in this contract includes:

- Development of any required CPCCo work packages (contractor will be expected to review work package prior to approval, but will not be facilitating work package development process),
- The authority to release facility work scope, and
- The authority to serve as Responsible Manager (RM), Release Authority (RA), and Controlling Organization Administrator (COA) – these functions will be performed by a CPCCo representative.

CPCCo will provide applicable permits (NEC, Fire Marshall, Occupancy, etc.).

Contractor will be required to interface with the vendor to facilitate delivery.

### **3.6 Construction Facilities and Temporary Controls**

The contractor may be required to supply the equipment necessary to perform the work scope, up to and including vehicles needed for transportation of personnel on-site. However, the contractor does not need to provide any construction facilities or temporary controls in support of this work scope.

### **3.7 Buyer Furnished Materials and Equipment**

The contractor shall furnish the following items in addition to those items necessary to complete this work scope not expressly listed as (BFE).

- Temporary lavatory facilities to support 8 employees

### **3.8 Site Conditions and Known Hazards**

# **CPCCo STATEMENT OF WORK**

## **Installation of Pole Mounted Transformer and Electrical Tie-in of MO2199**

---

The site conditions and/or known hazards are listed in the table below:

Falls	Noise sources	Bio-hazards and vermin
Uneven walking surfaces	Portable hand tools	Ergonomic hazards
Lifting	Falling objects	Hazardous Energy
Elevated work surfaces	Sharp objects	Cold Stress
Mobile Equipment	Wind and Dust	Confined Space (under trailer)

### **3.9 Site Coordination Requirements**

Contractor site coordination and interface requirements include communicating / coordinating all field work with the applicable Project Manager (PM) / BTR or designee, ensuring adequate training and work document release is obtained prior to starting work.

### **3.10 Request for Clarification (RCI)**

RCIs shall be used by the contractor to receive clarification from CPCCo at any time during the performance of this SOW. The RCI form shall not be used to document a contract modification, engineering change, or nonconformance. CPCCo response to an RCI does not constitute authorization to perform work associated with a change to the Contract.

The contractor may proceed in accordance with the response only on the basis that the contractor agrees that it is not a contract change. If the contractor believes the response constitutes a change, the contractor shall immediately process a Contract Change form (A-6004-820) and await receipt of additional written instruction from the CPCCo BTR or Contract Specialist.

## **4.0 TECHNICAL REQUIREMENTS**

Contractor will perform in accordance with the terms and conditions of this contract, CPCCo internal policies and procedures, and quality assurance provisions, including safety programs, laws, orders, permits, rules, confidentiality of information and intellectual property safeguards.

Contractor will provide a one line electrical drawing of all exterior wiring and equipment from the transformer to electrical termination at trailers.

All work shall be performed in accordance with the requirements, standards, and any other documents which are made a part of this SOW.

All electrical construction will comply with NFPA 70 (NEC) 2018 Edition.

The drawings included below, are hereby incorporated into, and made a part of this SOW. They shall have the same force and effect as if written into the body of the SOW. Any changes will be made by CPCCo via the PRC-PRO-EN-2001, Facility Modification Package Process.

- ECR-21-000615

**4.1 Work Location / Access Requirements (if applicable)**

The contractor shall perform work scope North of REDOX in the 200 West area, (roughly 28 road miles northwest of Richland, WA).

**4.2 Work Control Requirements**

Release of work packages and approval to work will be approved by the Release Authority on a daily basis. Work planned for the following day must be communicated to the Project (typically, the FWS and/or Construction Manager) by 1:00 pm. The Contractor shall support the CPCCo FWS in development of the Work Release for Construction/Services Organization form (WRC SOF) (A-6004-967) permits and any resource support required from the Owner, including inspections or hold points, special precautions about the planned work, and potential impacts such as contamination and service interruption. The form must describe contractor activities and deliveries at the jobsite. Contractor shall support development of the Plan of the Day (POD) / Plan of the Week (POW) as required per PRC-PRO-WKM-12115 (Work Management).

This Work Release for Construction/Services Organization Form (WRC SOF) will be used to obtain daily work release approval from the appropriate Release Authority (RA). Only work scope identified in an individual contract release may be released. Daily work will be limited by appropriate RA Work Authorization to tasks described on an approved WRC SOF form.

**5.0 PERSONNEL REQUIREMENTS****5.1 Training and Qualification**

A. Task specific or unique training or qualifications required for this task includes (but is not limited to) the following courses:

- 000006 CGET
- 290200 CP S&M Orientation/FEHIC
- 003111 Lock and Tag Authorized Worker including gap training
- 003056 Lockout/Tagout Authorized Worker Practical Eval
- 020147 Fall Hazard Recognition and Prevention
- 026100 OSHA 10 Hour (FWS and Safety Rep only)
- 044480 Electrical Safety for non-Electrical workers
- 170500 Basic Medic First Aid / CPR / AED (FWS, Safety, & Electrical workers only)
- 020194 Hearing Conservation Program (CBT)
- 020193 Heat Stress Prevention and First Aid (CBT)
- 600078 CPCCo Vehicle Spotter Awareness Training
- 020134 Hanford Site Confined Space Entry
- 044482 DOE-0359 Hanford Site Electrical Safety Program (Electrical workers only) including gap training
- 043870 NFPA 70E Standards for Electrical Safety (Electrical workers)

only) 2018

- B. The contractor is expected to provide appropriately trained and qualified staff to perform the type of work associated with their skill of craft at the Hanford site.
- C. CPCCo shall provide contractor staff task or facility specific training as required for site and facility access and safe performance of assigned tasks.
- D. Testing requirements for personnel who will be working in substance Testing Designated Positions.
- E. Employee Job Task Analysis (EJTA), Medical Clearance and Training Verification – For contractor personnel presently on staff and trained to the requirements of this Task Order, the contractor may submit a letter confirming that each person by name and Hanford Identification Number (HID) are trained to the requirements of this Task Order.
- F. EJTA's, Medical Clearances and a full Training Record submittal are required if the contractor hires new personnel to perform this Task.

Personnel who will be using Commercial Motor Vehicles (CMV) on site which are required to be operated under a DOT license / Commercial Driver's License (CDL) will require the contractor to meet all the Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (FMCSR) in 49 CFR Parts 40, 382, 383, 387, 390-937. Security and Badging Requirements

General site access badging is required. The contractor personnel shall wear a Hanford Local Site Specific Only (LSSO) security badge, sponsored by CPCCo, for identification and security purposes. The Contract Specialist shall be notified a minimum of two working days in advance for personnel badging.

For security purposes, Hanford site security badges are required to be worn at all times while on/in Hanford Site affiliated locations/buildings. Badges shall be worn on the front of the outermost garment, in the area between the neck and the waist, unless directed otherwise due to safety requirements, per MSC-RD-SEC-28974, Rev. 4

## **5.2 Site Access and Work Hours**

Work will be done on a 4 x 10 schedule Monday through Thursday. The standard workday shall consist of ten (10) hours of work between 6:00 AM and 4:30 PM, with one-half hour designated as an unpaid period for lunch. No work occurs on the non-working Fridays. If schedule alternative is required BTR will communicate to contractor's contact

## **6.0 ENVIRONMENTAL, SAFETY, HEALTH, AND QUALITY REQUIREMENTS**

The contractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The contractor shall comply with, and assist CPCCo in complying with Environmental, Safety, Health, and Quality (ESH&Q) requirements of all applicable laws, regulations and directives.

## **CPCCo STATEMENT OF WORK**

### **Installation of Pole Mounted Transformer and Electrical Tie-in of MO2199**

---

Materials supplied or purchased for use in performance of this contract, to the maximum extent practical, shall be environmentally preferred as described in 40 CFR 247 and including Bio-based products as designated by the USDA . [www.biopreferred.gov](http://www.biopreferred.gov)

The following project-specific ESH&Q requirements are applicable to this scope of work in addition to the requirements identified in the Contract **General Provisions** and, when work is being conducted on site, the additional ESH&Q requirements in **SP-5 Special Provisions – On-Site Services**.

#### **6.1 Environmental**

Flammable/combustible liquid storage shall be in accordance with NFPA 30. The contractor shall handle and dispose of waste in accordance with applicable federal, state, and local laws, regulations and requirements, CPCCo procedure, as well as the Contract Special Provisions – On-Site Services SP-5. The contractor shall immediately report all spills (of non-hazardous and hazardous material) to the CPCCo Environmental Compliance Officer (ECO) and BTR. Notification shall identify spilled material and provide an estimated quantity.

#### **6.2 Safety and Health**

The contractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work.

In addition to their established internal reporting protocol, the contractor shall immediately report any occupational injuries, regardless of severity, to the CPCCo Field Work Supervisor, BTR and Safety Representative.

The contractor shall comply with, and assist CPCCo in complying with all applicable laws, regulations and directives.

The contractor, and any lower-tier subcontractors, shall take all reasonable precautions in the performance of the work to protect the safety and health of employees and of members of the public. Where there is a difference in regulations or requirements, the most stringent shall apply.

While working within a facility, the contractor shall participate and/or respond appropriately to any emergency drills or exercises within the specific area where work is being performed. The Contractor may request participation exemptions a minimum of two weeks in advance, however exemptions may not always be granted.

##### **6.2.1 Electrical Safety Requirements**

Work practices and electrical safety training and qualification shall be in accordance with DOE-0359, Hanford Site Electrical Safety Program (HSESP). Electrical equipment and industrial control panels delivered or brought on to the site in performance of the contract shall be labeled by an organization currently recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL). Equipment installed as part of the contract shall comply with the NEC and, where applicable, IEEE C2 (NESC).



### **6.2.2 Hazard Identification**

To achieve the level of safety desired, hazard identification is required by the worker. The contractor shall address specific work activities and hazards associated with the specific work and work location to identify the controls necessary to eliminate or control the hazards.

All work performed under CPCCo jurisdiction shall have a hazard analysis performed, whether as a Job Safety Analysis (JSA), Automated Job Hazard Analysis (AJHA), or a Job Hazard Analysis (JHA) Checklist, unless deemed skill-based work per PRC-PRO-WKM-079. Job Hazard Analysis.

### **6.3 Quality Assurance and Control**

The Contractor shall be responsible for performing quality workmanship and shall conduct the quality control measures necessary to ensure work conforms to requirements included in this SOW.

The Contractor shall take all measures necessary to ensure Suspect/Counterfeit Items (S/CI) are not brought onto the Hanford Site. This includes items within the Contractor's equipment or items supplied as part of the contract.

The Contractor is responsible for the achievement and the verification of the quality of the activities performed in the completion of the described work scope. Compliance with Codes, Standards, and Requirements is the responsibility of the Contractor. At the conclusion of the construction activities, the BTR or designee (typically, the Project Manager, Facility Manager, or Construction Manager) may conduct a Final Acceptance Walkthrough during which time, all work will be inspected for compliance with contract requirements.

## **7.0 MEETINGS AND SUBMITTALS**

### **7.1 Meetings**

Contractor shall participate in the following meetings:

Pre-construction meeting

AJHA meeting

Briefings as requested

### **7.2 Submittals**

(EXAMPLE) Contractor shall submit the following documents (as part of the proposal / prior to starting work/ prior to arriving on site / prior to completion / with the final invoice):

1. Typically, a numerical sequence (i.e., 1, 2, 3...). However, other numbering systems may also be used.
2. Submittal type:

**APW** = Approval Required Prior to Work CPCCo must approve the Contractor's submittal prior to the Contractor being authorized to proceed with any activity/work associated with the submittal).

## **CPCCo STATEMENT OF WORK**

### **Installation of Pole Mounted Transformer and Electrical Tie-in of MO2199**

---

**AP** = Approval Required (CPCCo must approve the Contractor's submittal, however, work associated with the submittal may proceed prior to CPCCo approval).

3. Technical submittals are Engineering or Quality affecting submittals. A Yes in this column designates the need for formalized comments, and a formalized comment disposition process by the Contractor. Examples of Technical Submittals would include Engineering or Fabrication Drawings, or Certificates of Conformance.
4. Vendor Information for project record purposes.
5. Description/ Document Title. Description of the document
6. Required submittal date or its relationship to project milestones. Examples are July 14, 2009, or Award + 15 days, Contract Completion +30 days.  
**A+5**                      Date of contract plus five (5) days
7. Approver Organization. Examples are Construction Manager, Transportation, Safety, Quality, Radiation Protection, Waste Management, and/or Buyer's Technical Representative.
8. The number of Work Days required for review of the submittal.
9. Contract Reference: Cross reference to the Contract requirement that defines this submittal:

**SOW**                      Statement of Work  
**SP-5**                      Special Provision 5 (Contract document)

#### **7.3 Project Documents / Records**

The Contractor shall submit the completed work packages back into JCS in accordance with PRC-PRO-WKM-12115, as applicable.

**Installation of Pole Mounted Transformer and Electrical Tie-in of MO2199**

Contract Number and Name: Power Drop & Mobile Office Trailer Installation					Revision: 0			
No.	Type	Technical Submittal	Vendor Information	Description/ Document Title	Submittal Date (Calendar Days)	Approver/ Organizations	CHPRC Review Time	Contract Paragraph or Requirement Reference
1	APW/E	N	N	Employee Job Task Analysis (for new employees)	A+5	S & H	4 Days	5.1
2	APW/E	N	N	Hanford Safety Record/Training Verification (for new employees)	A + 5	S & H	4 Days	5.1
3	APW/E	N	N	Designated Safety Representative	A + 5	S & H	4 Days	6.2
4	APW/E	N	N	Chemical Inventory Worksheet and SDSs	A + 5	FCC	4 Days	SP-5
6	APW/E	Y	N	Trailers exterior one line electrical design,	A+10	ENG	4 Days	4.0
8	APW/E	N	N	Product Data for Electrical Equipment	A + 5	Engineering	4 Days	ECR-21-000615

**Installation of Pole Mounted Transformer and Electrical Tie-in of MO2199**

9	AP/E	N	N	Electrical Test Data – Include Continuity, Megger, and Voltage	After Install	ENG/QA	4 Days	ECR-21-000615
10	APW	N	N	Baseline Schedule	A+10	BTR	1 Week	8.0

**8.0 DELIVERABLES, PROJECT CONTROLS, MILESTONES, AND PERFORMANCE SCHEDULE REQUIREMENTS**

- The contractor may be required to develop a Field Execution Schedule (FES) prior to each work activity performed (TBD on a case by case basis). The Contractor shall provide schedules using Primavera Project Planner (P6) software.
  - a. The schedule submittal shall include a time-phased performance measurement baseline schedule (PMBS) for completing the work.
  - b. The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the contract period of performance. Identify critical path activities, including logical sequence and relationship of activities for engineering, design, submittals, procurement, fabrication, delivery, erection, installation, and testing as applicable for work covered by Contract.
- Downtime / delay reports: On a daily basis or on the working day of an occurrence, submit downtime / delay reports. Contractor shall provide sufficient back-up documentation and justification for the delay claim.
- Daily Field Reports: The contractor shall submit Daily Field Reports (Site Form: A-6004-822) prior to 10:00am the following work day.