

STATEMENT OF WORK

FOR

CONSTRUCTION OF ROAD CROSSINGS FOR YE44 & YE45

Requisition #: 362241

Revision Number: 0

Date: 10/27/2022

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Construction of Road Crossings for YE44 & YE45

SECTION 01010 SUMMARY OF WORK

PART 1 – GENERAL

1.1 INTRODUCTION / BACKGROUND

Central Plateau Cleanup Company (CPCCo) is a prime contractor to the U.S. Department of Energy (DOE) and all work on this Statement of Work will be performed in support of the Central Plateau Cleanup Contract (CPCC) with DOE. Central Plateau Cleanup Company (CPCCo) is focused on the safe, environmental cleanup of the Central Plateau of DOE's Hanford Site. CPCCo's scope of work includes treatment and disposal of various radioactive waste streams, groundwater, management of spent nuclear fuel, disposal or disposition of nuclear materials, and non-reactor nuclear facilities, and environmental remediation activities currently funded through DOE's Office of Environmental Management.

This SOW is issued for the construction work to support extraction wells YE44 & YE45 at the 200 Area on the Hanford Site located approximately 30 miles north of Richland, Washington.

1.2 DESCRIPTION OF WORK - GENERAL

The Contractor shall provide technically qualified person(s) that work as part of a team under the general supervision of CPCCo. 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. Contractor personnel generally will work in CPCCo facilities and be directed by CPCCo staff. Some offsite deliverable development may be applicable as directed by Buyer Technical Representative (BTR).

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

1.2.1 The scope of work is in the 200 Area of the Hanford Site north of Richland, Washington. There are four tasks described in this SOW.

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SECTION 01010
SUMMARY OF WORK

Construct the following 17 crossings in support of the YE44 & YE45 extraction wells expansion to the 200 West Pump & Treat.

- Traditional Road Crossings (13 each)
- Precast Trenches (2 each)
- Hose-in-Hose Pipe Crossings (2 each)

Road crossings need to be constructed at locations as defined in this Statement of Work (SOW). The required road crossings, herein after referred to as Work, are described in this (SOW) and are shown in drawings from ECR-20-000772 (Attachment A).

1.3 DESCRIPTION OF WORK - SPECIFIC

1.3.1 The scope of work is to construct 17 road crossings to support well access. All work shall be completed within 160 calendar days after receipt of the Notice to Proceed per task awarded.

The Contractor will provide and manage labor, equipment, and services required to complete work. Labor includes participation of Contractor's employees in training and medical examinations required by Contract.

1.3.2 Task Description

Task 1: Road Crossings

- Obtain or complete necessary Permit(s) [Hanford Fire Marshal, etc.]
- Procure and/or fabricate parts/components (not provided by CPCCo)
- Mobilize equipment/materials (Aerial lifts, forklifts, pipe sleeves, etc.)
- Install road crossings at locations in accordance with applicable drawings in 200 East Area.
- Install piping markers and delineators along roads and crossings.

Task 2: Precast Trenches

- Obtain or complete necessary Permit(s) [Excavation and Backfill, etc.]
- Procure and/or fabricate parts/components (not provided by CPCCo)
- Mobilize equipment/materials (Aerial lifts, forklifts, cranes, precast concrete trenches, etc.)

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**SECTION 01010
SUMMARY OF WORK**

- Perform excavation, shoring and trenching.
- Install precast concrete trench and associated components in accordance with the manufacturer’s instructions/specifications near A-AX Farm in 200 East Area.
- Install precast concrete trench and associated components in accordance with the manufacturer’s instructions/specifications west of RAD Building (289TA) in 200 West Area.

Task 3: Hose-in-Hose Pipe Crossings

- Procure and/or fabricate parts/components (not provided by CPCCo)
- Mobilize equipment/materials (Aerial lifts, forklifts, pipe crossings, etc.)
- Install hose-in-hose pipe crossing and associated components in accordance with applicable drawings near A-AX Farm in 200 East Area.
- Install hose-in-hose pipe crossing and associated components in accordance with applicable drawings near C Farm in 200 East Area.

Task 4: Acceptance testing and demobilization

- Complete construction acceptance tests.
- Demobilize equipment and materials.

1.4 DRAWINGS, SPECIFICATIONS, AND EXHIBITS

1.4.1 Drawings

1.4.1.1 Drawings that show Work are listed in the ECR below:

ECR No.	Rev.	Title
ECR-20-000772	Draft	Installation of Extraction Wells YE44 and YE45 and Expansion of Y32 System to the 200WP&T

1.4.2 Specifications and Work Processes

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**SECTION 01010
SUMMARY OF WORK**

1.4.2.1 The specifications applicable to this Scope are shown below:

Specifications & Drawings	Title
H-1-91103 Sheet 1 Rev 5	Standard Pump & Treat Civil Road Crossing Details
H-1-91103 Sheet 7 Rev 1	Standard Pump & Treat Civil Road Crossing Details
H-1-91103 Sheet 8 Rev 2	Standard Pump & Treat Civil Road Crossing Details
H-1-91103 Sheet 9 Rev 2	Standard Pump & Treat Civil Road Crossing Details
H-1-91103 Sheet 10 Rev 3	Standard Pump & Treat Civil Road Crossing Details
H-1-91142 Sheet 2 Rev 2	Standard Pump & Treat Well Rack Assembly
H-2-833550 Sheet 1 Rev 5	Civil Bio Process & Rad Bldgs. Facility Site Plan
H-2-833550 Sheet 3 Rev 5	Civil Bio Process & Rad Bldgs. Facility Site Plan
H-2-833550 Sheet 6 Rev 13	Civil Bio Process & Rad Bldgs. Facility Site Plan
H-2-833576 Sheet 14 Rev 0	Structural Rad Bldg. Precast Trench Plan
H-2-833610 Sheet 1 Rev 20	Civil 200W Pump & Treat Road Crossing Piping Plan
H-2-833610 Sheet 3 Rev 16	Civil 200W Pump & Treat Road Crossing Area 3
H-2-833610 Sheet 4 Rev 13	Civil 200W Pump & Treat Road Crossing Area 4
H-2-833610 Sheet 12 Rev 5	Civil 200W Pump & Treat Road Crossing Piping Plan
H-2-833610 Sheet 13 Rev 4	Civil 200W Pump & Treat Road Crossing Area 13
H-2-833610 Sheet 14 Rev 4	Civil 200W Pump & Treat Road Crossing Area 14
H-2-833610 Sheet 15 Rev 4	Civil 200W Pump & Treat Road Crossing Area 15
H-2-833610 Sheet 22 Rev 1	Civil 200W Pump & Treat Road Crossing Piping Plan
H-2-833610 Sheet 23 Rev 1	Civil 200W Pump & Treat Road Crossing Area 23
H-2-833610 Sheet 24 Rev 0	Civil 200W Pump & Treat Road Crossing Area 24
H-2-833610 Sheet 26 Rev 0	Civil 200W Pump & Treat Plan Precast Trench at YE45
H-2-833610 Sheet 27 Rev 0	Civil 200W Pump & Treat Precast Trench Enlarged Plan
H-2-833735 Sheet 4 Rev 8	Mechanical Pipe Support Standard Details
H-2-833735 Sheet 10 Rev 2	Mechanical Pipe Support Standard Details
H-2-833735 Sheet 35 Rev 0	Mechanical Pipe Support Standard Details
H-2-833576 Sheet 14	Sketch 8

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**SECTION 01010
SUMMARY OF WORK**

SGW-54021 Rev 0	01 61 00 – Common Product Requirements
SGW-59111 Rev 0	05 52 00 – Metal Railings
SGW-68414 Rev 0	31 10 00 – Site Clearing
SGW-68415 Rev 0	31 23 13 – Subgrade Preparation
SGW-68416 Rev 0	31 23 16 – Excavation
SGW-68417 Rev 0	31 23 23 – Fill and Backfill
SGW-68418 Rev 0	31 23 23.15 – Trench Backfill
SGW-54022	05 05 23 - Welding

- 1.4.2.2 Major CPCCo work processes applicable to this Scope are shown below. Refer to the Contract Document Part IV General Provisions (GP), paragraph 2.0, “Order of Precedence.”

Procedure No.	Title
CPCC-PRO-SH-40078, App F	Safety Program Specifications for Contractors
CPCC-PRO-SH-40499	Safety and Health Inspections
CPCC-PRO-WKM-079	Job Hazard Analysis
CPCC-PRO-WKM-12115	Work Management

- 1.4.3 Exhibits

The exhibits applicable to the Scope will be provided.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

- 3.1 SUMMARY

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SECTION 01010 SUMMARY OF WORK

3.1.1 Contractor is responsible for providing equipment, tools, supplies, and every item of expense. The following equipment and materials is a non-inclusive list:

- All industrial safety equipment for Contractor personnel (e.g., eye protection, hard hats, safety-toed footwear, welding hood, face shields, splash protection, etc.).
- Appropriate hearing protection for all contractor personnel.
- Signs, t-posts, ropes, or other approved barricade for posting zone. Traffic revision barriers and signing.
- Fire extinguishers 10 Lbs., ABC Type at applicable locations in accordance with DOE 1066 and NFPA 10, NFPA 1143, and Hanford Fire Marshal Permits.
- Cellular telephone or other communication device capable of initiating emergency notifications at remote work sites.
- Toilet services located at the site and all associated support sites. Disposal containers for clean trash are required for this action.
- Wash water and drinking water is required for this action.
- A light plant for site illumination, if required.

3.1.2 Regarding deliveries of materials and supplies, and the coordination of Subcontractors while on the CPCCo Site, the Contractor shall:

- Coordinate work or delivery with Contractor in advance.
- Arrange for badging through the Contract Specialist.
- Communicate any special hazards associated with the delivery or the work (e.g., safety, security)
- Meet the CPCCo contact at the designated rendezvous point. The individual designated to meet the Contractor is called the DPOC or POC (Delivery Point of Contact or Point of Contact).
- Comply with DPOC direction to the specified work location.
- Conduct a joint pre-delivery walk down of the work location with the DPOC prior to commencing delivery or work.

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SECTION 01010
SUMMARY OF WORK

The DPOC shall be physically present at the delivery site for the entire time a delivery or work is being executed to ensure that it is performed safely and in accordance with Contract requirements. Alternate arrangements may only be made with the approval and concurrence of the CPCCo BTR.

At completion of the delivery or work, delivery driver will exit the Site in a timely manner as directed by the DPOC.

END OF SECTION

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SECTION 01019
ITEMS FURNISHED FOR CONSTRUCTION
(CPCCo-Furnished Equipment)

PART 1 – GENERAL

1.1 REFERENCES

1.1.1 The following documents and others referenced herein form part of the Contract to the extent designated in this section. Referenced documents are those current as of the date of this section unless otherwise indicated.

1.1.2 Department of Energy (DOE)

0334 Hanford Site Excavating, Trenching and Shoring

0343 Hanford Site Stop Work Procedure

1066 Fire Protection

1.2 ITEMS FURNISHED FOR CONSTRUCTION

1.2.1 Gravel and sand (pit run) are available at no cost from natural deposits from Pit 34 in the 200 Area per BTR direction. Use of gravel and sand sites is nonexclusive; others may also enter to excavate material required for other work. Coordinate to enter locked pit through the BTR/CM. Water for construction is also available in the 200 Area.

1.2.1.1 If Contractor elects to utilize available gravel and sand sites, then the Contractor must furnish its own equipment and labor to excavate, process, load, transport, and place material. Habitation facilities will not be permitted.

1.2.1.2 Contractor shall confine removal of overburden and topsoil to CPCCo designated areas. After surface has been disturbed, stabilize blowing sand areas with ballast or other approved method to prevent wind erosion.

1.2.1.3 The Contractor shall use roads designated by CPCCo to access gravel and sand sites and to travel between gravel and sand sites and worksite. If oversized loads are utilized, comply with Section 01500.

1.2.1.4 Upon completion of operations, remove debris, temporary structures, and equipment. Grade excavated area, properly slope banks, and stabilize area to prevent wind erosion.

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SECTION 01019
ITEMS FURNISHED FOR CONSTRUCTION
(CPCCo-Furnished Equipment)

- 1.2.1.5 Right to use gravel and sand sites may be terminated by CPCCo for failure to meet Contract requirements and for abandonment of operations under this Contract.
Right

to use gravel and sand sites will be terminated without notice upon acceptance of Work under this Contract.

- 1.2.1.6 The Contractor shall supply and provide submittals of materials being utilized per Section 01300.
- 1.2.1.7 CPCCo will supply access to raw water for compaction and dust control from a standpipe located on the Hanford Site.

1.3 SUBMITTALS

- 1.3.1 See Section 01300 for submittal procedures.

- 1.3.2 Approval Required

- 1.3.3 Approval Not Required: None

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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**SECTION 01036
REQUEST FOR CLARIFICATION (RCI) AND CHANGES**

PART 1 – GENERAL

1.1 REFERENCES

Not Used

1.2 SUBMITTALS

1.2.1 See Section 01300 for submittal procedures.

1.2.2 Approval Required: None

1.2.3 Approval Not Required: Before starting work, submit name of person responsible for receiving changes to design media in accordance with 1.4.

1.3 REQUEST FOR CLARIFICATION (RCI)

1.3.1 This Section covers preparation of Contractor-originated Request for Clarification (RCI) (A-6004-833). RCI forms will be supplied during Preconstruction Conference (see Section 01200).

1.3.2 RCIs are used by the Contractor to receive clarification from CPCCo at any time during construction. The RCI form is **not** used to document a contract modification, engineering change, or nonconformance. CPCCo's response to an RCI does **not** constitute authorization to perform a change to the Contract.

1.3.3 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 Contract Specialist.

1.3.4 Limit each request to a single issue. Date each request and assign a unique reference number.

1.3.5 Provide pertinent information including Contract number, subject, Drawing numbers, Specification number and paragraph references, date by which response is requested, cost and schedule impacts, site location, descriptive text, and originator's name and signature.

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**SECTION 01036
REQUEST FOR CLARIFICATION (RCI) AND CHANGES**

1.3.6 Correspondence and inquiries from lower tier subcontractors addressed to CPCCo will be returned to originator or referred to Contractor.

1.3.7 RCIs shall be prepared in accordance with the form's instructions.

1.4 CHANGES

1.4.1 Authorized changes to design media will be provided to the Contractor via a Contract Change Form with an approved redline field change drawing, a Design Change Notice (DCN), or a contract modification.

1.4.2 The Contractor shall designate a single-point-of-contact responsible for receiving changes to drawings, specifications, and other design media. The designee shall be responsible for maintaining documents and ensuring the most current revision is being used for the performance of work. Documents shall be stored in a manner that minimizes the risk of loss or damage.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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SECTION 01040 COORDINATION

PART 1 – GENERAL

1.1 COMMUNICATIONS

1.1.1 Written communications between CPCCo and Contractor shall be sent to the representatives identified under “Contract Correspondence” in the Contract Part IV, Special Terms. The Contractor may interface with various CPCCo (and other) organizations through the CPCCo Contract Specialist (or designee), as required.

1.1.2 Applicable interfaces, including existing facilities, systems, features, and environmental conditions that the Contractor may interact with, include the following:

A BTR will be designated for contract release. The BTR is responsible for monitoring and providing technical guidance for this Contract and should be contacted regarding questions or problems of a technical nature. The BTR is also responsible for appropriate surveillance of the Contractor’s representative while on site. In no event, however, will an understanding or agreement, modification, change order, or any deviation from the terms of this Contract be effective or binding upon CPCCo unless formalized by proper Contract documents executed by the Contract Specialist prior to completion of this Contract. On all matters that pertain to Contract terms, the Contractor shall contact the Contract Specialist specified within this Contract. When in the opinion of the Contractor, the BTR requests or directs efforts outside the existing scope of the Contract; the Contractor shall promptly notify the Contract Specialist in writing. The BTR does not possess any explicit, apparent or implied authority to modify the contract. No action should be taken until the Contract Specialist makes a determination and/or modifies the contract.

The Contractor will immediately notify Hanford Fire Department of any fire incidents at (509)373-0911.

The Contractor shall immediately notify the field Contract Release BTR (who will contact CPCCo Safety) of any injuries or incidents; to include damage to contractor-owned property or equipment. The Contractor will follow this up within 24 hours with a written explanation to the Contract Specialist of the occurrence.

In the event that there is an abnormal or unusual situation associated with this contract work scope, the Contractor is to immediately contact the Buyer’s Technical Representative (BTR). If, after several attempts, the Contractor is unable to contact

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SECTION 01040 COORDINATION

either the BTR or the Contract Specialist, the Contractor is to contact the Hanford Emergency Operations Center (EOC) Shift office, formerly the Hanford Occurrence Notification Center at (509) 376-2900, which is available 24 hours a day, seven days a week, and provide them with: Contract Number, Contract Specialist’s name, BTR’s name and a short summary of the abnormal or unusual situation. If, after making contact with CPCCo, the Contractor is instructed to suspend activities, the Contractor is not to proceed until such direction to proceed has been expressly issued by the Contract Specialist. If there is an emergency situation, the Contractor is to make the appropriate immediate emergency call to 911 or (509) 373-0911 for cell phones and then make the notifications to CPCCo as set forth herein.

- 1.1.3 Daily construction activity shall be coordinated with CPCCo as identified in the Part IV – Special Provisions section 1.11 of the Contract document entitled “Designation of Technical Representative (BTR)”.
- 1.1.4 When working in a CPCCo-designated facility, Contractor shall be subject to CPCCo facility operation constraints and requirements including facility operational control, procedure compliance/interpretation, and stop work provisions. Contractor personnel shall respect and adhere to directions received from facility operation personnel when conducting work within the designated facility.

1.2 PREPARATION ACTIVITIES

The Contractor shall be responsible for the following functions, requirements, and design criteria preparatory activities:

- 1.2.1 Ensure equipment, and personnel are ready for the execution of the applicable contract release.
- 1.2.2 The Contractor shall ensure that Suspect/Counterfeit items are not brought onto the Hanford Site, in accordance with Section 01400.
- 1.2.3 Submit equipment certification and checklist per Section 01300. Ensure all Contractor-supplied tools and equipment are in good working order and free from obvious and known defects, malfunctions and disrepair (e.g., oil leaks, broken and/or missing parts) upon arrival at the job site.
- 1.2.4 Site conditions and known hazards are not limited to but may include the following:

Trips and Falls	Noise sources	Bio-hazards and vermin
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COORDINATION**

Uneven walking surfaces	Excavation & Earth Moving	Ergonomic hazards
Lifting	Falling objects	Hazardous Energy
Radiological Area	Sharp objects	Temperature Extremes
Mobile Equipment	Wind and Dust	Hoisting & Rigging
Portable Hand Tools	Chemicals/Chemical Products	Elevated Work Surfaces
Fire Hazards	Wildfire Hazards	Silica

1.3 SECURITY, BADGES, AND DOSIMETERS

1.3.1 CPCCo will arrange for issuance of security badges and dosimeters required for on-site work subject to the requirements identified in the Contract document under Part IV, Special Provisions – On-Site Services SP-5.

1.3.2 As soon as practical after award, the Contractor shall submit a badge request for personnel required under the various releases so that they may be scheduled for training and medical evaluation to be eligible for work onsite. A badge is required in order to obtain a Hanford Identification (HID) number, which is needed before training and medical evaluations can be coordinated and scheduled. A minimum of two working days advanced notice is required for a Site badge. Contractor shall wear a CPCCo -issued security badge identifying himself/ herself.

1.3.3 Contractor employees will be required to submit to vehicle searches and not personally carry or transport prohibited articles.

1.4 WORK HOURS

1.4.1 Work will be done on a 4-10's schedule, Monday-Thursday. The standard workday shall consist of 10 hours of work between the core hours of 6:00 AM to 4:30 PM. No work occurs on Facility Closure Days. If schedule alternative is required, BTR will communicate to Contractor contact.

Facility Closure Days through the Project duration are as follows for CY2022/CY2023:

Thanksgiving	November 23-24, 2022
Christmas	December 22 & 26, 2022

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**SECTION 01040
COORDINATION**

New Year's Holiday	January 2, 2023
President's Day	February 20, 2023
Memorial Day	May 29, 2023
Independence Day	July 4, 2023
Labor Day	September 4, 2023

1.4.2 The Contractor will have access to the job site based on the terms of the Contract.

1.5 WORK MANAGEMENT REQUIREMENTS

1.5.1 Performance of Work on other than regular day shift, movement of equipment, electrical system tie-ins, and equipment tie-ins require coordination and prior approval.

1.5.2 Work Control Requirements:

1.5.2.1 Work shall be performed in accordance with existing CPCCo procedures, policies, guidance documents, etc. No work shall be performed that is out of scope to the contract. If work is determined to be out of scope or questionable, work shall be stopped, issue/concern defined and evaluated. Contract revision will be prepared, as necessary.

1.5.2.2 The Contractor shall use the written work instructions provided by Buyer, which are written to guidelines described in CPCC-PRO-WKM-12115, *Work Management*. The Contractor and its lower-tiered subcontractors, that will be performing the work, shall support Buyer sponsored Enhanced Work Planning (EWP) meetings. The planning meetings will be scheduled by Buyer planning department. The Contractor and/or its lower-tier subcontractors (or representatives) shall provide competent person(s) to support the preparation of all required work documents and shall actively participate in the planning and preparation of the work instructions, Enhanced Work Planning (EWP) and Job Hazard Analysis (JHA) in accordance with CPCC-PRO-WKM-079, *Job Hazard Analysis*. These meetings will discuss work instruction planning scope, hazards and hazard mitigation and analysis preparation. Contractor shall have a representative from each building trades craft type that are performing the work.

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SECTION 01040 COORDINATION

- 1.5.2.3 CPCCo Soil and Groundwater Operations (S&GO) Work Control will prepare and provide the Work Package(s) that will invoke requirements for the performance of work and all Fire Marshal Permit Requirements Contractor shall document and execute their work in accordance with these requirements. Changes to Contractor Work/Facility Work Package(s) and supporting documents shall be incorporated into the Work Package following the requirements of CPCC-PRO-WKM-12115, *Work Management*, and Work Change Notice (WCN) process. Allow 5 working days for processing work change notices.
- 1.5.2.4 Hazard Identification and Control Requirements include a job hazard analysis that addresses each phase of the work, and the hazards associated with the environments at each work site location, in accordance with this SOW.
- 1.5.2.5 Work release requirements will consist of Soil and Groundwater (S&GO) releasing the work on a daily basis. A Work Release will be issued per the daily release sheet.

NOTE: The end-of-the-day meeting may be a conference call to plan the following day's work activities at a time to be determined by the BTR.

- 1.5.3 Hazard Identification and Mitigation
- 1.5.3.1 The Contractor will develop and maintain a work site Job Safety Analysis in accordance with CPCC-PRO-SH-40078 – *Contractor Safety Processes*, Appendix F – Safety Program Specifications For Contractors and additional requirements in SP-4 2.0 Occupational Safety Rating.
- 1.5.3.2 Contractor safety program structure and performance is documented on site form A-6004-812, Contractor Occupational Safety Industrial Hygiene Pre-Qualification Form. The following attachments to A-6004-812 are required:
- The CONTRACTOR worker's compensation experience modification rate (EMR)/risk rating for the current and past 3 years,
 - The OSHA 300A Summary for the past 3 years,
 - The Table of Contents from the offeror's safety and health manual,

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**SECTION 01040
COORDINATION**

- Copies of transmittal letters from any Federal or State OSHA inspection during the past 3 years – to include number of citations issued and a description of outcome),
- Identification and summary of occupationally related fatalities in the past 5 years that involve self-perform or subcontracted employees - to include cause and corrective actions implemented.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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SECTION 01050 FIELD ENGINEERING

PART 1 – GENERAL

1.1 CONTROL POINTS

1.1.1 Basic reference points, bench marks, and other survey data are shown on the Drawings.

1.2 QUALITY CONTROL

1.2.1 Quality Controls (e.g., inspections, tests, material identification, nonconformance control, etc.) shall be established, implemented, and documented using a graded approach to verify that design requirements are appropriately satisfied during construction. The specific controls shall be specified in Quality Assurance Plans and implemented through a combination of project procedures, drawings, specifications, and inspection/test plans. See Section 01400.

1.2.2 Structural alignment, support location, and grades: For surveying Work, use of a land surveyor registered in the State of Washington is required.

1.2.3 Layout: Use personnel who are trained, skilled, and experienced in construction staking.

1.2.4 Deliverable Documentation: Deliver field notes, records and documentation for Work under this Section in accordance with Section 01720.

1.3 PROCEDURE

1.3.1 Before construction activity and in field, verify control points provided by this section. Verification shall include horizontal coordinates and elevations. Report discrepancies to Buyer before proceeding with construction.

1.3.2 Using control points, establish reference points for structural alignment, support location, grades, layout and other construction activity. Record horizontal and vertical data for reference points.

1.3.3 Preserve control points, reference points, stakes and other established markers until either removal is authorized by Buyer or Work is completed.

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SECTION 01050
FIELD ENGINEERING

- 1.3.4 Refer to the Contract document Part IV,. Special Provisions – Construction Services SP-4's reference clause FAR 52.256-27, "Layout of Work."

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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SECTION 01065 PERMITS

PART 1 – GENERAL

1.1 REFERENCES

1.1.1 The following documents and others referenced herein form part of the Contract to the extent designated in this section. Referenced documents are those current as of the date of this section unless otherwise indicated.

- Department of Energy (DOE)

0343 Stop Work

0344 Hanford Site Excavating, Trenching, and Shoring

1066 Fire Protection

- National Fire Protection Association (NFPA)

1 Fire Code

70-2020 National Electrical Code (NEC)

10 Standard for Portable Fire Extinguishers

37 Installation and Use of Stationary Combustible Engines and Gas Turbines

1143 Standard for Wildland Fire Management

1.2 SUBMITTALS

Not Used

1.3 SUMMARY

1.3.1 Work elements requiring Hanford Site permits are identified in this section. Permits will be provided by CPCCo at no cost, unless otherwise stated.

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- 1.3.2 Notify CPCCo eight (8) working days in advance of work requiring permit (unless otherwise stated) and furnish requested information. Post permit in a conspicuous location and ensure employees' awareness of permit contents. Meet the requirements set forth in permit.
- 1.3.3 Permits identified in this section and other sections of the Contract may require use or approval of forms and requests that are not titled as permits but generically referred to as permits. Contractor shall comply with requirements identified on those forms and requests.
- 1.3.4 It is not anticipated that the Work performed under this SOW will require a Radiological Work Permit (RWP). However, if unexpected conditions are encountered during performance of the Work, an RWP may be required or contact Radiological Control and request a Radiological Screening in accordance with A-6004-654, "Radiological Hazard Screening Form (RHSF)."
- 1.3.5 It is not anticipated that cultural materials or protected plants or animals will be encountered during project activities in previously disturbed areas. However, workers are to be instructed to watch for bones or possible historic artifacts during field work on the Hanford Site, especially during excavation. If cultural materials are encountered, stop work within the immediate vicinity of the find and notify CPCCo.
- 1.3.6 Contractor shall watch for cultural materials such as bones or historic artifacts during field work on the Hanford Site. Contractor shall notify Buyer at least 24 hours in advance of performing excavations to arrange for monitoring by cultural resource experts. No excavation may proceed without such monitoring. If cultural materials are encountered, stop work within the immediate vicinity of the find and notify Buyer.

Migratory birds may be present at this site and nesting activities shall not be disturbed. If field work is to be initiated during active nesting season (i.e., between mid-March through end of July), Contractor shall contact CPCCo to initiate a review of the area where the work is to be performed to make sure no nesting is occurring within the affected area). Workers are to be instructed to watch for active nests. If active nests and/or any nesting birds are encountered, or birds exhibit defensive behavior, the Contractor shall stop work in the immediate vicinity of the nest and shall contact CPCCo for additional review and required action.

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PERMITS

- 1.3.7 Ground-disturbing activities have the potential to spread and increase noxious plants. Vehicles should stay on existing roadways, graveled areas, and bare areas to the extent possible.
- 1.4 PERMITS
 - 1.4.1 Hanford Site Excavation Permit. In accordance with DOE-0344. Required for excavation involving hand digging greater than 12 inches in depth, or machine digging.
 - 1.4.2 Fire Marshall Permit: Notify Buyer in accordance with SP-4. Required when fire alarm systems, fire sprinkler systems, or fire hydrants will be taken out of service; for new construction and demolition; when using combustible chemicals, compressed gas, explosives, and flammable/combustible liquids; when performing cutting/welding or outdoor burning; and for any activity falling under the scope of NFPA 1.
 - 1.4.3 Road Closure Permit: Notify Buyer in accordance with HMIS-RD-FP-8589 Hanford Fire Marshal Permits and CPCC-PRO-FP-40422 Fire Marshal Permit Interfaces
 - 1.4.4 Off Road Travel Permit: Notify Buyer in accordance with HMIS-RD-FP-8589 Hanford Fire Marshal Permits and CPCC-PRO-FP-40422 Fire Marshal Permit Interfaces
 - 1.4.5 Hanford Site Oversize/Overweight Permit (A-6003-609): Required for each vehicle and/or non-reducible load that exceeds the dimensions or weights shown in SP-4.
 - 1.4.6 Road Closure Permit – A Hanford Fire Marshal Permit for “Road Closure “will be required for any time a site road is closed
 - 1.4.7 Off Road Travel Permit – An “Off Road Travel” permit is required anytime an automotive vehicle will be traveling off established roads. Reference HMIS-RD-FP-8589 Hanford Fire Marshal Permits and CPCC-PRO-FP-40422 Fire Marshal Permit Interfaces

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**SECTION 01065
PERMITS**

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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**SECTION 01110
OCCUPATIONAL SAFETY / INDUSTRIAL HYGIENE**

PART 1 – GENERAL

1.1 REFERENCES

1.1.1 The following documents and others referenced therein form part of the Contract to the extent designated in this section. Referenced documents are those current as of the date of this section unless otherwise indicated.

1.1.1.1 Code of Federal Regulations (CFR)

Title 29	Labor
Part 1910	Occupational Safety and Health Administration (OSHA)
Part 1926	Safety and Health Regulations for Construction

1.1.1.2 Department of Energy (DOE)

0343	Hanford Site Stop Work Procedure
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1.2 SUBMITTALS

1.2.1 See Section 01300 for submittal procedures.

1.2.2 Approval Required

1.2.2.1 Safety and Health Program: CPCC-PRO-SH-40078, Appendix F, *Safety Program Specifications for Contractors* is the preapproved safety and health procedure; however, Contractor may submit, with proposal, an alternate safety program. The alternative program shall comply with federal, state, and local codes and CPCC-PRO-SH-40078, Appendix F.

1.2.2.2 Designated Safety Representative: Before starting work, submit name of individual identified as the "Designated Safety Representative," if the Contractor has more than one employee working on site in performance of this contract, in accordance with CPCC-PRO-SH-40078, Appendix "F", 3.2 Construction Safety. Contractor shall notify the Contract Specialist if the name of the Designated Safety Representative changes.

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OCCUPATIONAL SAFETY / INDUSTRIAL HYGIENE

- 1.2.2.3 Job Safety Analysis (JSA): Prior to onsite work, submit JSA identifying safety hazards as required by this Section.
- 1.2.3 Approval Not Required:
 - 1.2.3.1 The Safety and Health Inspection Checklist (A-6008-520) shall be completed daily and submitted electronically on a weekly basis in accordance with the Safety and Health Inspections procedure CPCC-PRO-SH-40499, *Safety and Health Inspections*.
- 1.3 SAFETY
 - 1.3.1 The Contractor shall comply with the on-site provisions identified in SP-5 of the Contract.
 - 1.3.2 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 all applicable laws, regulations and directives.
 - 1.3.3 The Contractor and its 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.
 - 1.3.4 While working within a facility or remote area, Contractor shall participate in emergency drills. Exemptions may be requested by Contractor.
 - 1.3.5 The Contractor shall wear personal protective equipment (PPE) while performing activities that present the potential for injury. Contractor shall utilize gloves that are rated as cut/puncture-resistant for all activities that present the potential for a cut or puncture to the hand. Leather gloves are not rated as cut/puncture-resistant, and are not permitted. Contractors shall still use gloves (e.g., leather, canvas, cotton, etc. as appropriate for the work activity) to prevent and/or protect the hand from abrasions and contusions. Cut-resistant gloves come in different performance strengths; the Contractor needs to exercise the right amount of care to ensure they have selected the proper type of gloves for the hazard to be encountered. CPCCo does not specify or recommend any brand-name gloves; but does require these gloves to be rated as cut/puncture resistant. Additional PPE may be required for

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specific tasks being performed. This PPE shall be addressed in the contractors Job Safety Analysis (JSA) that is submitted to CPCCo for approval prior to the start of work.

- 1.3.6 The Contractor shall review the work scope, location, and hazards to determine if the activity is skill-based or beyond skill-based work per CPCC-PRO-WM-079 (i.e., requires further analysis through a Job Hazard Analysis). Contractor shall ensure that contractor employee craft workers are, at a minimum, trained and qualified to the respective Craft Specific Hazard Analysis (CHA) for each craft listed and the controls associated with the CHA for each craft listed and the controls associated with the CHA as well as the General Hazard Analysis (GHA).

1.4 HAZARD IDENTIFICATION

1.4.1 Prior to performing any other activities, the Contractor shall submit a JSA/JHA for the construction activities to be performed.

- 1.4.1.1 JSAs/JHAs are prepared by the Contractor to address specific work activities and hazards associated with the specific work and to identify the controls necessary to eliminate or control the hazards. The JSA/JHA shall be written in such a manner as to be understood and usable by Contractor personnel in order to aid them in the identification, control, and response of potential hazards; it is not just a compliance document. To achieve the level of coordination desired, approval of the JSA/JHA is required to ensure proper safety planning and communication prior to the start of work. The JSA/JHA shall be prepared in a format provided by CPCCo, and the Contractor shall submit a JSA/JHA for approval prior to work on each release.

1.5 MEDICAL EXAMINATIONS

- 1.5.1 Medical examinations and Employee Job Task Analysis (EJTA) evaluation forms may be required for Contractor personnel prior to starting work on the Hanford Site. See SP-5. Please submit EJTA's for all personnel performing this Work.
- 1.5.2 The Contractor shall immediately notify the BTR and the Contract Specialist of any injuries or incidents; to include damage to Contractor-owned property or equipment.

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**SECTION 01110
OCCUPATIONAL SAFETY / INDUSTRIAL HYGIENE**

1.5.3 The Contractor shall take appropriate action, up to and including stopping work, and immediately notify the CPCCo if an unplanned risk or hazard is discovered that is not covered by directions provided by CPCCo. This action includes notifying the CPCCo if the work exposes their workers to hazards that require medical monitoring.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

3.1 As soon as practical after award, the Contractor shall submit a badge request for personnel so that they may be scheduled for training and medical evaluation to ensure crews will be eligible for work on site. The badging request is required to obtain a Hanford Identification (HID) # and have training and medical evaluations scheduled.

The Contractor shall arrange for their and subcontract employees to obtain the following regulatory required occupational medical examinations, which are triggered by the activities of this contract.

X	Noise (>85 dbA)
X	Particulates

The Contractor shall utilize the current Hanford Site Occupational Medical Provider (SOMP) to obtain the identified medical examinations.

NOTE: Contractor employees may be required to attend a second briefing to be scheduled by the SOMP to review medical information from initial appointment. The schedule for this briefing may take up to 15 working days from initial medical. No work may be performed on the Hanford Site prior to this second briefing being completed.

The Contractor may be required to follow Facility specific procedures when executing the work scope. Those procedures identified are required to be followed

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in executing specific scope described (Non-released documents may be obtained from the BTR or SME when on site).

Applies to Contract	Document Number	Title
<input checked="" type="checkbox"/>	CPCC-MP-SH-32219	10 CFR-851 CPCCo Worker Safety and Health Program Description
<input checked="" type="checkbox"/>	CPCC-PRO-SH-28034	Adverse Weather
<input checked="" type="checkbox"/>	CPCC-POL-SH-5053	CPCCo Safety, Health, Security, Quality, and Environmental Policy
<input checked="" type="checkbox"/>	CPCC-RD-SH-11166	Control of Working Hours and Working Alone
<input checked="" type="checkbox"/>	DOE-0359	Hanford Site Electrical Safety Program (HSESP)
<input checked="" type="checkbox"/>	CPCC-PRO -SH-40463	Ergonomics
<input checked="" type="checkbox"/>	CPCC-PRO-SH-40410	Hazard Communication Program
<input checked="" type="checkbox"/>	CPCC-PRO-SH-121	Heat Stress Control
<input checked="" type="checkbox"/>	CPCC-PRO-WKM-079	Job Hazard Analysis
<input checked="" type="checkbox"/>	CPCC-POL-SH-54212	Vehicle Safety Policy
<input checked="" type="checkbox"/>	CPCC-RD-SH-52755	Employee Job Task Analysis
<input checked="" type="checkbox"/>	CPCC-PRO-SH-40479	Occupational Noise Exposure and Hearing Conservation
<input checked="" type="checkbox"/>	CPCC-PRO-SH-40499	Safety and Health Inspections
<input checked="" type="checkbox"/>	CPCC-PRO-SH-40461	Safety Communications
<input checked="" type="checkbox"/>	CPCC-PRO-SH-7085	Safety Responsibilities
<input checked="" type="checkbox"/>	DOE-0343	Hanford Site Stop Work Procedure
<input checked="" type="checkbox"/>	CPCC-PRO-SH-40445	Tags, Signs and Barriers
<input checked="" type="checkbox"/>	CPCC-STD-FP-40404	Fire Protection Program
<input checked="" type="checkbox"/>	HMIS-RD-FP-9717	Fire Prevention for Construction / Occupancy/Demolition Activities
<input checked="" type="checkbox"/>	CPCC-PRO-SH-17916	Industrial Hygiene Exposure Assessments
<input checked="" type="checkbox"/>	CPCC-MP-SH-40516	Chemical Management Program
<input checked="" type="checkbox"/>	CPCC-PRO-FP-40421	Hot Work
<input checked="" type="checkbox"/>	CPCC-PRO-SH-409	Industrial Hygiene Monitoring, Reporting and Records Management
<input checked="" type="checkbox"/>	CPCC-STD-SH-40518	Personal Protection
<input checked="" type="checkbox"/>	CPCC-PRO-SH-077	Reporting, Investigating, and Managing Health, Safety and Property/Vehicle Events
<input checked="" type="checkbox"/>	DOE-0344	Hanford Site Excavating, trenching and shoring Procedure (HSETSP)
<input checked="" type="checkbox"/>	DOE-1066	Fire Protection
<input checked="" type="checkbox"/>	CPCC-PRO-FP-40422	Fire Marshal Permit Interfaces

3.2 CPCCo will provide Hanford medical facilities for emergency or life-threatening injury situations (those requiring immediate medical attention). All injuries,

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accidents, fires, and near misses shall be reported to CPCCo, including fires that are extinguished without causing damage.

3.3 To ensure worker safety, work or portions of work may be temporarily and incrementally shut down due to high winds, lightning, or other inclement weather as determined by CPCCo. The Contractor shall not be additionally compensated in terms of cost or schedule for weather-related shutdowns. CPCCo issues the following warnings via radio system, public announcement, or in person. The Contractor shall ensure that subcontractor personnel are apprised of the warnings and take the required actions as stated in CPCC-PRO-SH-28034 *Adverse Weather* for:

- Lightning Safety
- Wind Conditions
- Snow and Ice Safety
- Torrential Rain and Hail Safety
- Early Release Due to Adverse Weather
-
- Suspend operation of mobile cranes and other material lifting/ hoisting/moving equipment during periods of high wind conditions (defined as sustained winds at 25 mph or greater and/or gusts meet or exceed 35 mph). All loose outdoor material shall be secured.
- Hanford Bulleting for Red Flag Warnings, AB07-001 Rev 15 (which restricts automotive travel Off Road during high wildfire risk weather periods.
- At wind speeds of 25 mph and /or gusts to 35 mph, suspend work on roofs and elevated surfaces (e.g., scaffolds, ladders) AND LIMIT other work to those activities specifically evaluated for continuing safe operation (including parallel and side wind impacts) and approved by the Project Vice President.
- Suspend all elevated outdoor CPCCo work activities (e.g., work associated with the use of forklifts, dump trucks, elevated booms [e.g., cranes, drilling/telescopic forklift masts], aerial lifts [e.g., JLGs], scaffolds, ladders, etc.) when lightning is detected within a 50-mile radius of the work location. This includes any equipment that has a boom or capability of extending any part to an elevation greater in height than the equipment cab (e.g., raising

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dump truck beds or roll-on/roll-off containers, but does not apply to driving those vehicles).

- Suspend all outdoor CPCCo work when lightning is detected within a 10-mile radius.

Suspend all outdoor CPCCo work when lightning is detected within a 10-mile radius.

In addition to these warnings, CPCCo also provides the following:

- Snow and ice removal is provided on Site roads. The Contractor shall provide snow removal and ensure safe walking and transfer conditions for walkways and access points around their offices and work areas and the job-site within the project boundaries.
- In response to winter storm conditions, CPCCo may close the Site or release Contractor's employees early. If so, CPCCo will make appropriate announcements and coordinate the closure or early dismissal. Reference General Provisions 5.3, "Delays – Force Majeure."
- The Contractor shall be responsible for freeze protection in all areas turned over to the Contractor by CPCCo.

3.4 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, 385, 387 and 390-399.

3.5 Slow moving vehicles/mechanized equipment may traverse in and around 200E, 200W, 100K, 300 and 400 Area and the 100B, C, D, F, H, N Areas/facilities and may cross low volume roadways as long as facility hazard analysis and basic traffic controls are in place to provide safety for pedestrians and nearby motorists that may interact. At a minimum, one SMVE vehicle is required at the rear of the slow-moving vehicle if the vehicle needs to travel long-distance (1/2 mile or more) within the areas.

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END OF SECTION

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SECTION 01130
ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY

PART 1 – GENERAL

1.1 REFERENCES

1.1.1 The following documents and others referenced therein form part of Contract to extent designated in this section. Referenced documents are those current as of the date of this section unless otherwise stated. Contractor is required to comply with these documents.

1.1.1.1 Code of Federal Regulations (CFR)

Title 10	Energy
Part 820	Procedural Rules for DOE Nuclear Activities
Part 830.122	Quality Assurance Criteria
Part 835	Occupational Radiation Protection
Title 29	Labor
Part 1910	Occupational Safety and Health Administration (OSHA)
Section 1200	Hazard Communication
Part 1926	Occupational Safety and Health Standards
Title 40	Protection of Environment
Part 82	Protection of Stratospheric Ozone
Part 112	Oil Pollution Prevention

1.1.1.2 National Fire Protection Association (NFPA)

 30 Flammable and Combustible Liquids Code

1.1.1.3 Revised Code of Washington (RCW)

 Title 46 Motor Vehicles

 Chapter 46.11 Vehicle Licenses

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SECTION 01130
ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY

- 1.2 SUBMITTALS
 - 1.2.1 See Section 01300 for submittal procedures.
 - 1.2.2 Approval Required
 - 1.2.2.1 Safety Data Sheets (SDS): Before starting work, submit SDS for hazardous chemicals. Chemical sources: One work day before starting work, submit detailed information relative to any anticipated process involving the application of volatile chemicals (use of a volatile cleaning agent, application of polyurethane coating, etc.)(1.7.4).
 - 1.2.2.2 Chemical inventory: Five work days before starting work, submit inventory of chemicals that will be brought to the worksite in accordance with SP-4, SP-5, and this Section.
 - 1.2.2.3 Dust control plan: Five work days before starting work, submit a Dust Control Plan in accordance with 1.8.2.
 - 1.2.3 Approval Not Required: None
- 1.3 WASTE MINIMIZATION
 - 1.3.1 Minimize waste in accordance with the following waste management hierarchy.
 - a. Source reduction
 - b. Reuse
 - c. Recycling
 - d. Compliant disposal
 - 1.3.2 Source Reduction
 - 1.3.2.1 Material substitution: Minimize number of chemicals used to perform same or similar tasks. Where practical, replace hazardous materials with non-hazardous or less hazardous substitutes.
 - 1.3.2.2 Inventory reduction: Minimize product inventory to reduce accumulation of partially used and unused materials requiring disposal. Remove partially used lots and unused materials from worksite at Contract completion.

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ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY

- 1.3.2.3 Packaging: Minimize packaging brought on worksite. Whenever feasible, return empty containers to vendor.
- 1.3.2.4 Waste segregation: Separate wastes to avoid creating additional wastes and mixtures that cannot be recycled, or that may be more difficult to manage.
- 1.3.2.5 Process modification: Streamline processes for more efficient operation and less waste generation.
- 1.3.2.6 Reuse/Recycling: Ensure that materials are reused, if possible, rather than discarded as waste.
- 1.4 DISPOSAL OF INERT/DEMOLITION AND NONHAZARDOUS WASTE
 - 1.4.1 Handle and dispose of waste in accordance with applicable federal, state, and local laws, regulations and requirements, Contract document Part IV, Special Provisions SP-5 – On Site Services (SP-5) and this Section. Notify CPCCo prior to shipment of inert/demolition waste for radiological survey by others if removing from contaminated area.
 - 1.4.2 Non-hazardous: Dispose of non-hazardous debris using bins provided by Contractor.
 - 1.4.3 Any nonradioactive inert waste (i.e., broken asphalt, broken concrete, glass, brick, aluminum, stainless steel, wood, and overburden/spoils material such as rock and earth) may be disposed at no charge to Contractor at Pit 9 located in 200 West Area. Notify Buyer at least 24 hours prior to need for entry.
 - 1.4.4 Other waste generated on the Hanford Site such as demolition rubble, construction debris, trash, and solid waste not included in other waste categories specifically mentioned in the contract shall be dispositioned by Contractor.
- 1.5 HAZARDOUS WASTE
 - 1.5.1 Hazardous materials shall be managed in accordance with SP-5. Promptly report all spills of hazardous waste.
 - 1.5.2 Flammable/combustible liquid storage shall be in accordance with NFPA 30 & CPCC-PRO-FP-40422, Appendix D.

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- 1.6 DISPOSAL OF DANGEROUS AND MIXED WASTE
 - 1.6.1 Handle and dispose of waste in accordance with applicable federal, state, and local laws, regulations and requirements and CPCCo procedures. Hanford-specific requirements also apply to dangerous and mixed waste generated on the Hanford Site.
 - 1.6.1.1 Notify CPCCo at least five days before generation of waste and immediately after spill and other unforeseen waste generation. Notification shall identify waste stream and provide an estimated quantity of waste to be generated.
 - 1.6.1.2 Upon notification by Contractor, CPCCo will establish a CERCLA waste storage area within worksite and select and provide labeled containers affixed with numbers. Contractor shall provide a digital fish scale or comparable weighing device at the CERCLA waste storage area and shall ensure personnel responsible for the CERCLA waste storage area are properly trained.
 - 1.6.2 Separately accumulate waste from each waste stream in accordance with applicable federal, state, and local laws.
 - 1.6.2.1 During spill cleanup and waste accumulation, cumulatively record waste inventory on Waste Inventory Sheet (A-6003-706).
 - 1.6.2.2 Containers are set up and managed by CPCCo. Manage waste in accordance with SP-5.
 - 1.6.3 CPCCo will coordinate pick up and disposal of properly sealed dangerous waste after notification by Contractor.
 - 1.6.4 CPCCo will conduct weekly inspection of CERCLA waste storage area containers.
- 1.7 LIQUID EFFLUENTS
 - 1.7.1 In accordance with the Contract documents Part IV, Special Provisions SP-4 – Construction Contracts (SP-4), SP-5, and CPCC-PRO-SH-40078 - Contractor Safety Processes, when the Contractor brings chemicals on site, the activity is subject to CPCCo’s Chemical Management System Program. The Contractor shall fill out and keep current a Chemical Inventory Worksheet (form A-6004-750).

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ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY

- 1.7.2 Safety Data Sheets (SDS) for hazardous chemicals (as defined by 29 CFR 1910.1200) that will be used during the work activity shall be kept current. Contractor shall provide the list to the assigned BTR when list has been updated.
- 1.7.3 The Contractor shall submit detailed information relative to any anticipated process involving the application of volatile chemicals (e.g., use of a volatile cleaning agent, application of polyurethane coating, etc.).
- 1.8 AIR EMISSIONS
- 1.8.1 The following emissions are regulated and shall comply with applicable federal, state, and local laws, regulations and requirements:
- a. Fugitive emissions and dust.
 - b. Abrasive blasting.
 - c. Ozone-depleting substances.
 - d. Non-routine (unplanned) emissions.
 - e. Radioactive airborne emissions (from disturbing contaminated soil).
- 1.8.2 The Contractor shall take reasonable precautions to minimize fugitive dust during performance of this work.
- 1.8.3 The Contractor shall not conduct open burning without the express written approval of BTR or CM.
- 1.8.4 Air emission sources also include non-road internal combustion engines for power generator or air compressor, loader, backhoe, welder, chain saw, etc. Licensed motor vehicles, pursuant to RCW 46.16 are exempt from the inventory. However, mounted internal combustion engines not used to propel the vehicle (e.g.; mounted generator) shall be inventoried.
- 1.8.5 The Contractor shall comply with CPCC-PRO-SH-40078 - *Contractor Safety Processes*, Appendix F, Section 2.15, for controlling exposures to airborne hexavalent chromium. These requirements are specifically applicable to welding, grinding, torch-cutting, metal buffing and metal polishing, and spray painting activities.
- 1.8.6 During any work disturbing the existing ground surface, a Buyer-provided RCT/HPT will be present to conduct intermittent radiological surveys of the excavated or

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ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY

disturbed material, if deemed necessary by Buyer. The radiological surveys will be conducted on the spoils removed during any soil excavation as well as on the equipment being utilized for this excavation. These radiological surveys are not expected to significantly disrupt the Contractor's ability to perform the required work. Contractor shall provide 2 work days prior notice to Buyer of need for RCT/HPT coverage of any excavation or work activity that will significantly disturb the existing ground surface.

- 1.8.7 If at any point, radioactive materials above specified action levels are encountered, work shall be stopped immediately. A Radiological Work Permit will be prepared by Buyer to cover working with radiological contaminated soils and materials.
- 1.8.8 If radiological contamination is encountered during excavation or other work activities, Contractor shall place equipment in a safe condition and remove all personnel from area as directed by the RCT/HPT. Radiological controls shall be evaluated by the Radiological Protection organization to the encountered conditions and modified as may be required. Contractor shall seek direction from the Buyer prior to resuming work activities.
- 1.8.9 A release survey is required to be conducted by Buyer provided RCTs/HPTs of all equipment utilized in excavation. Release survey shall be conducted prior to equipment being removed from the project site. The survey is expected to take approximately one hour per piece of equipment. Contractor shall provide 2 work days prior Notice to Buyer of need for RCT/HPT coverage to conduct required release surveys.
- 1.8.10 Contractor may additionally request a contamination release survey for each removal of equipment or material from a radiological buffer area. Contractor will not be charged for survey.
- 1.8.11 If survey reveals that equipment or material is not radiologically contaminated, dispose of material as planned.
- 1.8.12 If survey reveals that equipment or material is radiologically contaminated, dispose in accordance with direction from Buyer. Buyer will determine if release back to the Contractor is possible. If not possible, the Contractor will be compensated for items taken.

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1.9 CONTINGENCIES

1.9.1 Isolate and secure spill area in a manner that protects human health and the environment. Take direct action if nature of spilled or unforeseen waste material is known and if material can be immediately and safely absorbed, neutralized, or otherwise controlled.

1.9.2 Notify CPCCo upon occurrence or discovery of hazardous substances and non-hazardous material spills and of unforeseen dangerous waste generation. Notification shall identify waste stream if known and include identification and quantity of waste. Clean up areas contaminated by spilled material and manage spill residues in accordance with this Section.

1.9.3 In addition, the following project specific safety requirements are applicable to this specific scope of work and are tailored to the hazards and controls applicable to this scope of work.

1.9.4 In accordance with, Part IV of this contract, all on-site work shall be conducted in accordance with SP-5, Special Provisions – On-Site Services.

1.9.5 All construction, drilling, and services under the management of the Contractor shall be performed in accordance with CPCC-PRO-SH-40078, Appendix F, *Safety Program Specifications for Contractors*, which flows down the 10 CFR 851 requirements to the Contractor.

1.10 WASTE MANAGEMENT

1.10.1 UTILIZE dumpsters located at the job-site for sanitary/unregulated waste including general construction debris.

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At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

SECTION 01130
ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY

- 1.10.2 CONTACT the BTR who will coordinate with S&GO Waste Management for disposal of any waste other than general construction debris (i.e., chemically contaminated wastes (e.g., paint wastes, rags, etc.).
- 1.11 RADIOLOGICAL COVERAGE REQUIREMENTS
- 1.11.1 Prior to starting any soil disturbing activities, a survey of the area will be conducted by RCT's provided by CPCCo. The survey will consist of monitoring the work area to ensure no radioactive contamination exists in the environment in the area to be worked (aka. grub survey). If radioactive contamination is found in the area, notify the project manager and radiological controls department for further direction prior to proceeding.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION

01130-8

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Construction of Road Crossings for YE44 & YE45

**SECTION 01150
TRAINING AND QUALIFICATIONS**

PART 1 – GENERAL

1.1 REFERENCES

1.1.1 The following documents and others referenced therein form part of Contract to extent designated in this section. Referenced documents are those current as of the date of this section unless otherwise stated.

1.1.1.1 Code of Federal Regulations (CFR)

Title 49	Transportation
Part 40	Federal Motor Carrier Safety Administration
Parts 382-383	Federal Motor Carrier Safety Administration
Parts 385, 387	Federal Motor Carrier Safety Administration
Parts 390-399	Federal Motor Carrier Safety Administration

1.1.1.2 Department of Energy, Richland Operations (DOE-RL)

DOE-RL-92-36	Hoisting and Rigging Manual
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1.1.1.3 Washington Administrative Code (WAC)

Title 296	Department of Labor and Industries
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1.2 SUBMITTALS

1.2.1 See Section 01300 for submittal procedures.

1.2.2 Approval Required

1.2.2.1 Before starting work, submit documentation of successful completion of training requirements and certification that all training is current.

1.2.3 Approval Not Required: None

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Construction of Road Crossings for YE44 & YE45

SECTION 01150 TRAINING AND QUALIFICATIONS

- 1.3 REQUIREMENTS
 - 1.3.1 General
 - 1.3.1.1 Contractors using a vehicle meeting the definition of a Commercial Motor Vehicle in 49 CFR 383.5 and 390.5, must comply with all of the DOT Federal Motor Carrier Safety Regulations (FMCSR) as promulgated in 49 CFR Parts 40, 382, 383, 385, 387 and 390-399.
 - 1.3.1.2 The Contractor shall provide appropriately trained and qualified staff to perform the type of work associate with their trade at the Hanford Site.
 - 1.3.1.3 Task- and facility-specific training is required in this Statement of Work, the Contract Provisions, and other documents referenced herein. The training listed may not be all-inclusive of training required.
 - 1.3.1.4 Required training shall be completed prior to related work being performed.
 - 1.3.1.5 CPCCo will provide task- or facility-specific training required for the Hanford Site, which includes the class, instructor, and required training material. The Contractor is responsible for cost of labor to complete all required training.
 - 1.3.1.6 When offsite equivalent training is available, **The Contractor is responsible for all training costs.** CPCCo will provide equivalent onsite training or reimbursement for any equivalent onsite/offsite training costs.
 - 1.3.1.7 CPCCo will provide for on-the-job evaluations (OJE) when they are required by Contract.
 - 1.3.1.8 For previous training to be acceptable for Hanford Site qualification, documented evidence shall include type and class of equipment. For qualifications not related to equipment operation, personnel shall have documented evidence of training and experience related to an activity covered under this Contract.
 - 1.3.1.9 The Contractor shall maintain copies of personnel training records at the jobsite.
 - 1.3.2 Site-Required Training

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Construction of Road Crossings for YE44 & YE45

SECTION 01150
TRAINING AND QUALIFICATIONS

- 1.3.2.1 CPCCo General Employee Training (CGET) and Hanford Site Orientation (HGET): Mandatory for all Contractor and sub-tier Contractor personnel performing work on the Hanford Site. Previous CGET training may be acceptable.
- 1.3.3 Qualification Training
 - 1.3.3.1 Hoisting and Rigging
 - 1.3.3.2 Hanford Site Hoisting and Rigging Manual (DOE-RL-92-36) provides qualification for rigging operations. The Contractor may submit employee record of equivalency (i.e., experience and union affiliation), but is required to pass a written or oral examination; operators of cranes, forklifts, and aerial lift personnel performing rigging activities shall also satisfactorily complete an OJE.
- 1.3.4 The following training/qualifications required for this task includes (but is not limited to) the following courses:



NOTE: Employee training is tailored to the work task performed by each employee. Contractor shall submit a training matrix for the Contractors and their Subcontractors personnel to identify worker assignment and applicable training required and current status of completed training for each employee. Personnel will not be permitted to commence work in advance of completing the required training requirements.

Hanford Course No.	Course Title
000001	HGET - CBT
000006	CGET – CBT
600630	Conduct of Work CBT
600644	General Hazard Analysis (GHA)
301850	Soil & Groundwater Remediation Project Orientation
301851	S&GO Facility Emergency Hazards Identification Checklist (FEHIC)
290225	Soil & Groundwater Cultural Sensitivity CBT
044470	Forklift Operational Safety
04467B	Forklift Class 3 Operation Qualification (OJE)

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Construction of Road Crossings for YE44 & YE45

**SECTION 01150
TRAINING AND QUALIFICATIONS**

Hanford Course No.	Course Title
044672	Forklift Class 1 & 2 Operator Qualification (OJE)
044673	Forklift Class 4, 5 & 7 Operator Qualification (OJE)
600078	CPCCo Vehicle Spotter Awareness Training
050411	Load Securement for Drivers & Traffic Personnel
026100	OSHA 10-Hour Health and Safety (FWS & Safety only)
170500	Basic Medic First Aid/CPR/AED (FWS & Safety only)
620193	CPCCo Temperature Extremes - CBT
620194	CPCCo Hearing Conservation - CBT
200207	Silica Awareness
200208	Silica Competent Person

1.3.5 Other Training

- a. Any special certifications (i.e., welding, engineering, NDE)
- b. Job specific training (i.e., journey electrician, journeyman pipefitter, heavy duty operator)
- c. "Competent and/or Qualified Person"
- d. Occupational Safety and Industrial Hygiene Training (See CPCC-PRO-SH-40078)

	Anticipated work assignments
X	Driver With CDL

PART 2 - PRODUCTS

Not Used

01150-4

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Construction of Road Crossings for YE44 & YE45

SECTION 01150
TRAINING AND QUALIFICATIONS

PART 3 - EXECUTION

Not Used

END OF SECTION

01150-5

At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

SECTION 01200 PROJECT MEETINGS

PART 1 – GENERAL

1.1 SUMMARY

1.1.1 General purposes of conferences and meetings addressed in this Section are coordination, control, and direction of the Work. In addition to meetings addressed by this Section, Contractor may be required by other Sections and other Contract documents to conduct special-purpose meetings and various safety meetings and briefings.

1.1.2 CPCCo will issue meeting notices and prepare an agenda and minutes for each conference and meeting addressed in this Section. When applicable, minutes will identify action items, assigned actionees, and due dates.

1.2 SITE LABOR CONFERENCE

1.2.1 Before start of Work, Contractor shall conduct a conference at a time and Hanford Site location agreed upon by Contractor and the Labor Organization representatives.

1.2.2 Invited attendees shall include CPCCo, Contractor, subcontractors, Labor Organizations representing utilized crafts, and others having an interest in Hanford Site labor requirements.

1.2.3 Purpose of the conference is familiarization of project participants with Hanford Site labor requirements. Conference shall last approximately one hour and shall include a presentation by the Contractor of the proposed craft utilization and work plan.

1.3 PRECONSTRUCTION CONFERENCE

1.3.1 Before start of the Work, CPCCo will conduct a conference at a time and Hanford Site location agreed to by Contractor and CPCCo.

1.3.2 Invited attendees will include CPCCo, Contractor, subcontractors and others having an interest in the Work

1.3.3 Purpose of the conference is the coordination of Work startup and familiarization of project participants with the Work and worksite. The conference will last approximately two (2) hours and will include the following agenda.

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Construction of Road Crossings for YE44 & YE45

**SECTION 01200
PROJECT MEETINGS**

- a. Construction Progress Meetings
- b. Presentation on “Wildfire Prevention” (Note: FPE is able to provide).
- c. Forms required by the Contract. CPCCo will provide reproducible masters.

Form No.	Title
A. Form A-6004-822	Construction Daily Field Report
B. Form A-6004-967	Work Release for Construction/Service Organizations
C. Form A-6004-820	Change Form
D. Form A-6004-750	Chemical Inventory Worksheet
E. Form A-6004-757	Contractor Document Submittal
F. Form A-6004-833	Request for Clarification or Information (RCI)
G. Form A-6004-783	Craft Specific Job Safety Analysis/Position Hazard Analysis (K-1-JSA/PHA)
H. Form A-6004-784	Job Hazard Analysis/Activity Hazard Analysis (JHA/AHA) for Subcontractors
I. Form A-6004-785	Task-Specific Job Safety Analysis (K-3 JSA)
J. Form A-6008-520	Safety and Health Inspection Checklist

- d. Other Site Forms that may be reviewed at this meeting:

Form No.	Title
A. Form A-6004-929	Construction Completion Document
B. Form A-6004-590	Waste Planning Checklist
C. Form A-6004-952	Pre-Job Briefing Checklist
D. Form A-6006-539	Construction Lost Time / Work Delay Notification (White Card)
E. Form A-6006-916	Mobile Equipment Operation Worksite Pre-Use Checklist

- e. Material and equipment lists
- f. Points of contact and key personnel representing the Contractor and CPCCo. Areas covered will include safety, quality assurance and quality control, Price Anderson Amendment Act (PAAA), acceptance inspection, and construction engineering

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Construction of Road Crossings for YE44 & YE45

SECTION 01200 PROJECT MEETINGS

- g. Quality requirements
 - h. Report requirements
 - i. Safety
 - j. Schedule requirements, schedule constraints, and work limitations
 - k. Submittals
- 1.4 CONSTRUCTION PROGRESS MEETINGS
- 1.4.1 At the discretion of the BTR, CPCCo will conduct progress meetings at time and Hanford Site location as deemed necessary to ensure progression of the Work.
- 1.4.2 Invited attendees will include CPCCo, Contractor, and subcontractors.
- 1.4.3 The purpose of the meetings is the exchange of Work-related information. Average meeting will last approximately 1 hour and will include the following agenda items:
- a. Safety
 - b. Quality Assurance
 - c. Progress
 - d. Submittal Status
 - e. Schedule, Cost and Construction Status
 - f. Requests For Information – Status
 - g. Design and Scope Changes
 - h. Material and Equipment Status
 - i. Problem Areas

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Construction of Road Crossings for YE44 & YE45

SECTION 01200
PROJECT MEETINGS

- 1.4.4 The Contractor shall provide CPCCo with a Construction Daily Field Report (A-6004-822) and Construction Lost Time / Work Delay Notification (White Card) (A-6006-539), if applicable, identifying the work performed for the day; craft, supervision, and subcontractor manpower; problems, issues, or delays; safety, and planned activities for the following day, etc. Construction Daily Field Reports shall be submitted to CPCCo by 10:00 am each work day documenting the previous work day's activities. Construction Daily Field Reports will be filled out until the project is completed or terminated, and will be submitted on days where no work has been done.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

01200-4

At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

SECTION 01300 SUBMITTALS

PART 1 – GENERAL

1.1 SUMMARY

1.1.1 This Section provides the general procedures and requirements for preparing and processing submittals. Required submittals are identified in other Specification sections, other Contract sections, and the CPCCo OS/IH Manual. Required submittals are also summarized by CPCCo on the Master Submittal Register. The Master Submittal Register is included in this Section. The submittal register may not be all-inclusive, and identifies documents required with proposal submittal, post-award / prior to Notice-To-Proceed (NTP), and post NTP.

1.1.2 “Deliverable documents” differ from submittals and are processed in accordance with Section 01720. Deliverable documents are Quality Assurance documents and are required by technical sections of the Specification.

1.2 CLARIFICATIONS

1.2.1 Contract documents take precedence if a conflict exists between Contract documents and the submittal register. Immediately notify CPCCo of discrepancies in the submittal register.

1.2.2 Approval of a specific item does not constitute approval of a system or assembly of which an item is a component.

1.2.3 Materials and equipment that differ from approved submittals are subject to rejection and replacement at Contractor’s expense.

1.2.4 Delays arising from failure to provide required submittals in a timely manner will not constitute excusable delays for extension.

1.2.5 Standard processing time of submittals by CPCCo is under 2 weeks and is measured from date of submittal’s receipt by CPCCo to date of return mailing.

1.3 SUBMITTAL BY CONTRACTOR

1.3.1 The Contractor submittals identified herein on the submittal register shall be submitted to CPCCo Document Control by the Contractor using the Contractor

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Construction of Road Crossings for YE44 & YE45

SECTION 01300 SUBMITTALS

Document Submittal (A-6004-757). Instructions for completion of the submittal are included with the form.

- 1.3.2 The quantity, frequency, and type of submittal shall agree with the requirements set forth on the submittal register. The submittal number shall be entered on the submittal form by the Contractor in accordance with the submittal register. This number is used to identify each submittal.
- 1.3.3 When any submittal is returned to the Contractor with a request to resubmit (i.e., marked as: “B-yes” “Minor Comments – Approved With Exceptions as Corrected Re-submittal Required”; or “C” “Not Approved Revise and Resubmit”) the Contractor shall resubmit all corrected documents within the time specified on the returned submittal form, or if no time is specified, within 5 working days from the disposition date.
- 1.3.4 Contact the Contract Specialist if additional submittal numbers are required.
- 1.3.5 Changes to a Contractor’s deliverables that have not been accepted by CPCCo as complete shall be re-submitted using the submittal form and in accordance with the Contractor’s CPCCo approved Quality Assurance Program.
- 1.4 MASTER SUBMITTAL REGISTER

A submittal register is provided in Section 01300A.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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Construction of Road Crossings for YE44 & YE45



**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
Statement of Work Submittal Requirements								
0-1	APW	YES	No	Pipe sleeve markings in accordance with ASTM	A + 5	QA	5	01400, 1.2.2.1
0-2	FIO	No	No	Name of person responsible for receiving changes to design media	A + 5	BTR	5	01036, 1.2.3
0-3	APW	No	No	Equipment Certification and Checklist	A + 5	Safety	5	01040, 1.2.3
0-4	APW	No	No	QA Plan	A + 5	QA	5	01050, 1.2.1
0-5	APW	No	No	Contractors Alternate Safety Program	A + 5	Safety	5	01110, 1.2.2.1
0-6	APW	No	No	Designated Safety Representative	A + 5	Safety	5	01110, 1.2.2.2
0-7	APW	No	No	JSA and Safety Requirements	A + 5	Safety	5	01110, 1.2.2.3, 1.3.5, 1.4
0-8	APW	No	No	EJTAs	A + 5	Safety	5	01110, 1.5.1
0-9	APW	No	No	Chemical Inventory Worksheet and SDSs	SC - 5	Safety	5	01130, 1.2.2.1, 1.2.2.2, 1.7.3
0-10	APW	No	No	Dust Control Plan	SC - 5	Safety	5	01130, 1.2.2.3, 1.8.2

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Construction of Road Crossings for YE44 & YE45

Requisition No. 362241

10/27/2022

**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
0-11	APW	No	No	Employee Training Completion Records and Certifications	SC - 5	Safety	5	01150, 1.2.2.1, 1.3.3.2, 1.3.4
0-12	AP	No	No	Construction Daily Field Report	Daily	Safety	5	01200, 1.4.4, 01720, 1.3.1.1
0-13	AP	No	No	Construction Lost Time	As required	Safety	5	01200, 1.4.4, 01720, 1.3.1.1
0-14	AP	No	No	Statement for Suspect/Counterfeit	EC + 5	QA	5	01400, 1.2.2.1, 1.4.4, 1.4.5
0-15	AP	YES	No	Substitution Requests	SC	ENG	5	01630, 1.1.2.1
0-16	AP	No	No	Revised schedule	As required	BTR	5	01315, 1.1.2.2
Supporting Specification SGW-54021, 01 61 00 – Common Product Requirement								
1-1	AP	NO	NO	Recommended maintenance during storage and factory assembly.	M - 30	BTR	5	1.05.A
1-2	AP	NO	NO	Manufacturer’s instructions for material requiring special handling, storage or protection.	M - 30	BTR	5	1.05.B

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At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
Supporting Specification SGW-54022, 05 05 23 – Welding								
2-1	APW	YES	NO	Shop and field Welding Procedure Specifications (WPSs) and Procedure Qualification Records (PQRs)	M – 30 (if welding required)	ENG/QA	5	1.03.B.1
2-2	APW	YES	NO	Visual Examination (VT) procedure specifications prepared in accordance with applicable welding code.	M – 30 (if welding required)	ENG/QA	5	1.03.B.2
2-3	APW	YES	NO	Welding Data (Shop and Field)	M – 30 (if welding required)	ENG	5	1.03.B.3, 01400, 1.2.2.1.1
2-4	AP	YES	NO	Welder/Welding Operator Performance Qualifications (WPOs)	M – 30 (if welding required)	ENG/QA	5	1.03.C.1
2-5	AP	YES	NO	Certified Weld Inspector (CWI) credentials/certifications, including current visual acuity record.	M – 30 (if welding required)	QA	5	1.03.C.2

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At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
2-6	AP	YES	NO	Testing agency personnel credentials/certifications	M – 30 (if welding required)	QA	5	1.03.C.3
2-7	AP	YES	NO	Certified Weld Inspector (CWI) visual examination reports	M – 30 (if welding required)	ENG/QA	5	1.03.C.4
2-8	AP	YES	NO	Welding Documentation: Provide a complete welding package on appropriate forms in referenced welding codes.	M – 30 (if welding required)	ENG/QA	5	1.03.C.5
Supporting Specification SGW-68416, 31 23 16 – Excavation								
3-1	APW	YES	NO	Excavation Plan – Detailing: a) Methods and sequencing of excavation. b) Proposed locations of stockpiled excavated material. c) Proposed onsite and offsite spoil disposal sites. d) Numbers, types, and sizes of equipment proposed to perform excavations.	M - 30	ENG	5	1.01.B.1

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At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
				e) Anticipated difficulties and proposed resolutions. f) Reclamation of onsite spoil disposal areas.				
Supporting Specification SGW-68417, 31 23 23 – Fill and Backfill								
4-1	APW	YES	NO	Gradation Tests – During production of imported material, test as follows: a) Granular Fill: One per 2,000 tons b) Base Course Rock: One per 1,000 tons c) Foundation Stabilization Rock: One per 500 tons d) Structural Fill: One per 2,000 tons	M - 30	ENG	5	1.03.B.1 2.01
4-2	APW	YES	NO	Certified results from independent testing agency.	M - 30	ENG	5	1.03.B.2
4-3	AP	YES	NO	In-Place Density Tests – In accordance with ASTM D6938. During placement of materials, test as follows: a) Granular Fill: Four tests every lift b) Base Course Rock: Daily	M - 30	ENG	5	1.03.C.1 3.05.B

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Construction of Road Crossings for YE44 & YE45

**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
				c) Foundation Stabilization Rock: Daily d) Structural Fill: Four tests every lift				
4-4	AP	YES	NO	Certified results from independent testing agency.	M - 30	ENG	5	1.03.C.2 3.05.B
Supporting Specification SGW-68418, 31 23 23.15 – Trench Backfill								
5-1	APW	YES	NO	Shop Drawings: Manufacturer's descriptive literature for marking tapes	A + 10	ENG	5	1.03.B.1
5-2	APW	YES	NO	Samples: a) Trench stabilization material b) Bedding and pipe zone material c) Granular fill d) Earthfill e) Geotextile	A + 10	ENG	5	1.03.B.2
5-3	FIO	YES	NO	Certified Gradation Analysis: Imported materials or anticipated use for excavated materials, except for trench stabilization material prior to delivery to Site.	M - 30	ENG	5	1.03.C.1
5-4	FIO	YES	NO	Controlled Low Strength Material (CLSM):	M - 30	ENG	5	1.03.C.2

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**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
				Certified mix design and test results. Include material types and weight per cubic yard for each component of mix.				
Supporting Specification H-1-91103 Sheet 9, Section 02220								
6-1	AP	YES	NO	Damage Prevention Procedure: Procedure to prevent overstressing existing structures, and interrupting existing services.	M - 30	ENG	5	1.2.2.1
6-2	AP	NO	NO	Competent Person: Identity of individual designated competent person as defined in 29 CFR 1926.650.	M - 30	ENG	5	1.2.3.1
6-3	AP	YES	NO	Compaction Testing: Provide report required by each standard: a) Compaction Control ASTM D 1557, ASTM D 4253, or WSDOT M 46-01 b) In Place Density: ASTM D 2922 c) ASTM D 3017	EC	ENG/QA	5	3.7.1.2, 01720, 3.1
Supporting Specification H-1-91103 Sheet 10, Section 02512								
7-1	AP	YES	NO	Laboratory Reports: Provide test reports demonstrating that asphalt and mix meet	D	ENG	5	1.2.B.1

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Construction of Road Crossings for YE44 & YE45



**SECTION 01300A
MASTER SUBMITTAL REGISTER**

MASTER SUBMITTAL REGISTER								
Contract Number/Name: Road Crossings for YE44 & YE45							Revision: 0	
Submittal No.	Type	Technical Submittal	Vendor Information	Description of Submittal	Submittal Date (when required)	Approval Organization	CPCCo Review Time Needed (work days)	Contract Paragraph or Requirement Reference
				requirements. For mix, include Rice Density established by WSDOT M 46-01d, Method T-209.				
7-2	AP	YES	NO	Job Mix Design: Provide job mix designs in accordance with WSDOT M 41-10, 5-04.3(7)A. Include percent asphalt content and aggregate gradation..	D	ENG	5	1.2.B.2
7-3	AP	NO	NO	Competent Person: Identity of individual designated as competent asphaltic concrete paving inspector. Provide documentation indicating certification of qualifications.	M - 30	ENG	5	1.2.C.1
7-4	AP	NO	NO	Provide trip reports	EC	ENG/QA	5	3.1.A
7-5	AP	NO	NO	Provide test results	EC	ENG/QA	5	3.2.A

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

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At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

Requisition No. 362241

10/27/2022



SECTION 01300A MASTER SUBMITTAL REGISTER

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

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).

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

FIO = For information only, receipt required

Format: Describes the type of submittal required (electronic or printed):

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. Describe submittal.
6. Required submittal date or its relationship to project milestones. Examples are July 14, 2009, or Award + 15 days, Contract Completion +30 days.

A	Date of Award
CD	Conceptual Design Complete
PD	Preliminary Design Complete
FD	Final Design Complete
M	Mobilization

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**SECTION 01300A
MASTER SUBMITTAL REGISTER**

D **Delivery**
SC Start of Construction
EC End of Construction

7. Approver Organization. Examples are Field Work Supervisor, Safety, Quality, Radiation Protection, Waste Management.
8. The number of Work Days required for review of the submittal.

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Requisition No. 362241

10/27/2022

**SECTION 01315
PROJECT SCHEDULES, PROJECT CONTROLS,
AND PROJECT PERFORMANCE MILESTONES**

PART 1 – GENERAL

1.1 SCHEDULES

1.1.1 See Section 01300 for submittal process.

1.1.2 Approval Required

1.1.2.1 Project Schedule: With Proposal, submit a schedule covering activities for duration of Contract, starting with receipt of Notice to Proceed, as specified in 1.2.

1.1.2.2 Revised Schedules: When required or work schedule slips, submit revised project schedules as specified in 1.3.

1.1.3 Approval Not Required: None

1.2 SCHEDULE PREPARATION

1.2.1 The schedule shall identify critical path activities, including logical sequence and relationship of activities for engineering, design, submittals, procurement, fabrication, delivery, erection, installation, and testing for work covered by Contract. See Section 01300 for submittal procedures.

1.3 WEEKLY WORK SCHEDULE PREPARATION

1.3.1 Each week, prepare a detailed schedule of the following week's work. Base weekly work schedule and work activity. Electronic generation of these schedules is not required.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

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**SECTION 01315
PROJECT SCHEDULES, PROJECT CONTROLS,
AND PROJECT PERFORMANCE MILESTONES**

END OF SECTION

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Construction of Road Crossings for YE44 & YE45

Requisition No. 362241

10/27/2022

**SECTION 01400
QUALITY ASSURANCE AND CONTROL**

PART 1 – GENERAL

1.1 REFERENCES

1.1.1 The following documents and others referenced therein form part of Contract to extent designated in this section. Referenced documents are those current as of the date of this Section unless otherwise indicated.

Code of Federal Regulations (CFR)

Title 29	Labor
Part 1910	Safety and Health Regulations for General Industry
Part 1926	Safety and Health Regulations for Construction

Department of Energy (DOE)

Process Guide	Identification and Disposition of Suspect/Counterfeit items or Defective items
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1.2 SUBMITTALS

1.2.1 See Section 01300 for submittal procedures.

1.2.2 Approval Required

1.2.2.1 Submit pipe sleeves. Submit a written statement that all items supplied under Contract are genuine, new, and unused in accordance with 1.4.5. Submit accreditations and/or certification of company used to perform compaction reports and certification on qualified inspector in accordance with 1.5.1.

1.2.2.1.1 Submit Welding documentation if welding is required in accordance to SGW-54022, 05 05 23 - Welding, including the following welding data:

- a) Show on Shop drawings or weld map complete information regarding base metal specification designation, location, type, size, and extent of welds with

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At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

SECTION 01400 QUALITY ASSURANCE AND CONTROL

reference called out for WPS and NDE numbers in tails of combined welding and NDE symbols as indicated in AWS A2.4.

- b) Distinguish between shop and field welds.
- c) Indicate, by welding symbols or sketches, details of welded joints and preparation of base metal. Provide complete joint welding details showing bevels, groove angles, and root openings for welds.
- d) For pipe fittings, provide a joint weld beveling diagram. Refer to AWS D1.1/D1.1M, Annex Q Local Dihedral Angle that can be used to calculate bevels for weld joint details of intersecting pipes.
- e) Welding and NDE symbols shall be in accordance with AWS A2.4.
- f) Welding terms and definitions shall be in accordance with AWS A3.0.
- g) Submit Welding data (visual examination/ inspection results) together with shop drawings as a complete package.

1.2.3 Approval Not Required

1.3 QUALITY ASSURANCE PROGRAM REQUIREMENTS

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.

1.4 EXCLUDING SUSPECT AND MISREPRESENTED PRODUCTS

1.4.1 The Contractor shall take the measures necessary to ensure Suspect/Counterfeit items are not brought onto the Hanford Site. This includes items within the Contractor's equipment or supplied as part of the Contract.

1.4.2 The Contractor warrants that items provided to CPCCo are genuine, new, and unused unless otherwise specified in writing by CPCCo. Contractor further warrants that items used during the performance of the Work include genuine, original, and new components, or are otherwise suitable for the intended purpose. The Contractor indemnifies CPCCo, its agents, and third parties for any financial loss, injury, or property damage resulting directly or indirectly from material,

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SECTION 01400 QUALITY ASSURANCE AND CONTROL

components, or parts that are not genuine, original, and unused, or otherwise suitable for the intended purpose. This includes materials that are defective, suspect, or counterfeit; materials that have been provided under false pretenses; and materials or items that are materially altered, damaged, deteriorated, degraded, or result in product failure.

- 1.4.3 Types of material, parts, and components known to have been misrepresented include fasteners; hoisting, shackles, turnbuckles, cable clamps, wire rope, rigging, and lifting equipment; cranes; hoists; valves; pipe and fittings; electrical equipment and devices; plate, bar, shapes, channel members, and other heat-treated materials and structural items; welding rod and electrodes; and computer memory modules. The Contractor's warranty shall also extend to labels and trademarks or logos affixed, or designed to be affixed, to items supplied or delivered to Buyer. In addition, because falsification of information or documentation may constitute criminal conduct, Buyer may reject and retain such information or items, at no cost; and identify, segregate, and report such information or activities to the DOE.
- 1.4.4 The Contractor shall submit a written statement that "all items furnished under this Contract are genuine (i.e., not counterfeit) and match the quality, test reports, markings, and fitness for use required by the Contract." The statement shall be on Contractor letterhead and signed by an authorized agent of Contractor.
- 1.4.5 Any materials furnished as part of this Contract that have been previously found to be suspect/counterfeit by the DOE will not be accepted. For more information about suspect/counterfeit items, refer to DOE-HDBK-1221-2016, *Suspect/Counterfeit Item Resource Handbook*.
- 1.5 INSPECTION AND TESTING
- 1.5.1 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.
- 1.5.2 At the conclusion of construction activities, the Construction Manager/ BTR will conduct a Final Acceptance Walk-down during which time; work will be inspected for compliance with contract requirements.

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SECTION 01400
QUALITY ASSURANCE AND CONTROL

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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Construction of Road Crossings for YE44 & YE45

SECTION 01500
CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 – GENERAL

1.1 REFERENCES

1.1.1 The following documents and others referenced herein form part of Contract to extent designated in this section. Referenced documents are those current as of the date of this section unless otherwise indicated.

1.1.2 Washington State Department of Transportation (WSDOT)

M 41-10 Standard Specifications for Road, Bridge, and Municipal
Construction

1.2 ACCESS AND PARKING

1.2.1 CPCCo will make available parking for a limited number of Contractor's company vehicles near the worksite, outside of any Limited Area. "No Parking" signs are posted to show fire and emergency lanes. No on-street parking will be permitted. The Hanford Fire Marshal Permit for Construction will limit the distance automotive vehicles can be allowed to park next to brush land i.e., 35 ft clear space free of combustible materials and vegetation. Ref. CPCC-PRO-FP-40422, Appendix D7.0 Motor Vehicle Parking In Support of Construction Activities.

1.2.2 First Aid: Facilities for first line medical attention are available onsite and are located at the 2719WB building located in the 200 West Area of the Hanford Site. Facilities for radiological decontamination are also available onsite and are located at the 272AW building in the 200 East Area.

1.2.3 Operation and Storage Areas: Worksite operations, including storage of materials, shall be designated by CPCCo during the preconstruction conference.

1.3 FIELD OFFICE

1.3.1 A Field Office is not required for this project.

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Construction of Road Crossings for YE44 & YE45

SECTION 01500
CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

- 1.4 TEMPORARY CONTROLS
- 1.4.1 Dust Control: Maintain work areas to prevent hazard or nuisance to others. Accomplish dust control by sprinkling or other methods approved by CPCCo. Repeat sprinkling at necessary intervals to keep disturbed area damp at all times. Keep sufficient equipment on worksite to accomplish dust control as work proceeds and whenever dust nuisance or hazard occurs. No separate or direct payment will be made for dust control and cost shall be considered incidental to and included in the Contract price.
- 1.4.2 Temporary Enclosures: Plastic sheeting materials used to form enclosures shall be 6 mils minimum thickness, and have fire retardant properties in accordance with NFPA 701. Framing lumber shall have been treated with fire retardant
- 1.4.3 Vehicle and equipment movement
- a. Slow moving vehicles and equipment shall follow the requirements in the Slow Moving Vehicles Procedure (HMIS-POL-SP-62103) and not travel on the Hanford Site roads during heavy traffic periods between 6:30 and 8:00 a.m., and 3:30 and 5:30 p.m.
 - b. Do not block existing roads.
 - c. Do not park on roadway shoulders.
 - d. Vehicles that require a portable fire extinguisher in accordance with CPCC-PRO-SH-40078, Appendix F, shall have the extinguisher secured in an approved manner (vehicle mounting bracket designed for specific extinguisher, or stowed in a secured equipment container).
 - e. The Hanford Fire Marshal Permit for Construction will limit the distance automotive vehicles can be allowed to park next to brush land i.e., 35 ft clear space free of combustible materials and vegetation. Ref. CPCC-PRO-FP-40422, Appendix D7.0 Motor Vehicle Parking In Support of Construction Activities.
- 1.4.4 Traffic Control: Temporary traffic control and barricades shall be in accordance with WSDOT M 41-10, Section 1-10 and 1-10.3(3).

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SECTION 01500
CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

1.4.5 Oversized vehicles and loads:

- a. Obtain a Hanford Site Oversize/Overweight Permit before movement of oversize loads. See Section 01065. Verify route suitability and limitations before applying for the permit.
- b. Display oversize load sign on the front of the towing vehicle and on the rear of the trailing unit. Attach red flags to each corner.
- c. Travel between 8:30 a.m. and 2:30 p.m. unless special arrangements are made. Comply with escort vehicle requirements in the permit during travel.
- d. Electrical escort requirements: CPCCo will provide qualified electrical escorts when loads reach a height of 14 feet or more from the road surface, or when a clearance of at least 6 feet cannot be maintained from overhead electrical or signal lines. Notify CPCCo at least three (3) working days before need. Contractor will not be charged for electrical escorts.

1.4.6 Fuels and Lubricants:

- a. Oils, greases, and similar materials shall be stored in non-flammable bins or buildings or in a fenced compound remote from other combustible materials as approved by CPCCo.
- b. "No smoking" signs shall be provided by Contractor and prominently displayed in areas where flammable materials are stored. Additionally, Contractor shall provide and maintain suitable fire extinguisher in such areas.
- c. Contractor shall provide all fuel for heating, ventilation, and air conditioning of Temporary Facilities (unless these are run using free issue power).
- d. Depending on the amount of combustible liquids to be stored a Hanford Fire Marshal Permit may be required and a NRTL (e.g., FM approved) fire-rated cabinet could be required for the storage of the subject materials. Reference CPCC-PRO-FP-40422, Section 3.8, "Flammable and Combustible Liquids and Hazardous Materials".

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SECTION 01500
CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

01500-4

At CPCCo, Safety is no accident

Construction of Road Crossings for YE44 & YE45

SECTION 01610
MATERIAL AND EQUIPMENT
DELIVERY, STORAGE, AND HANDLING

PART 1 – GENERAL

1.1 SUMMARY

1.1.1 This section contains requirements for delivery, inspection, marking, storage, and handling. Product-unique requirements are contained in other sections. Chemicals shall be handled, stored, and tracked in accordance with Section 01130; flammable/combustible liquid storage shall be in accordance with Section 01130.

1.2 DELIVERY

1.2.1 Provide equipment and labor required for unloading, transporting, and handling delivered products.

1.2.2 Safety Data Sheets (SDSs) shall be kept accessible at each jobsite where material is stored. See Section 01130.

1.3 RECEIVING INSPECTION

1.3.1 Arrange for immediate disposal and replacement of products found to be defective, damaged beyond repair, or in otherwise unacceptable condition.

1.3.2 Perform standard inspections and additional inspections required by this Statement of Work.

1.3.3 Dry and clean products that have become wet or have accumulated foreign substances during shipment, but have not become damaged.

1.3.4 Perform additional identification marking of products when necessary to meet requirements of this Statement of Work.

1.3.5 CPCCo may inspect products and product marking and storage methods for compliance with this Statement of Work.

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Construction of Road Crossings for YE44 & YE45

SECTION 01610
MATERIAL AND EQUIPMENT
DELIVERY, STORAGE, AND HANDLING

- 1.4 PRODUCT IDENTIFICATION AND SEGREGATION
 - 1.4.1 Provide identification tags or markings for products of similar appearance, or intended for similar use, procured to different specifications, or from different manufacturers. Safety Significant items shall be segregated from general services items, as well as stainless steel from carbon steel.
 - 1.4.2 As applicable, include following information on tags: Manufacturer's name; product brand name; specification number; product type, grade and class; and other information required by other sections of this Statement of Work.
 - 1.4.3 Segregate tagged or marked products and provide separate storage for each product.
 - 1.4.4 Preserve identity of bulk and lot products during storage and in-process work.
- 1.5 STORAGE
 - 1.5.1 Store packaged products in original, unbroken packages and containers. Leave seals and labels intact.
 - 1.5.2 Store rolled products in upright position.
 - 1.5.3 Store products with finished surfaces in manner that prevents surface damage.
 - 1.5.4 If contact between products could result in damage or reduction of utility, store products far enough apart to prevent contact. If close proximity storage is necessary, provide a barrier between products. Care shall be taken to preclude carbon and halide contamination of stainless steel products.
 - 1.5.5 Keep ports, nozzles, ends, and other openings on equipment, tanks, pipe, and tube capped or plugged during storage.
 - 1.5.6 Follow manufacturer's storage recommendations.
 - 1.5.7 Remove, dispose of, and replace products with expired shelf-life dates. Dispose of hazardous products in accordance with Section 01130.

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Construction of Road Crossings for YE44 & YE45

SECTION 01610
MATERIAL AND EQUIPMENT
DELIVERY, STORAGE, AND HANDLING

1.6 INDOOR STORAGE

1.6.1 Provide indoor storage for products that can be damaged by, or can deteriorate from, changes in temperature and relative humidity. Combustible material storage should be placed in noncombustible storage enclosures (e.g., metal cabinets), to reduce fuel exposures and reduce the fire hazard to the building or otherwise meet the Occupancy storage restrictions defined by NFPA for the location.

1.6.2 When required by this Statement of Work, or when recommended by product manufacturer, provide environmentally controlled storage. Maintain temperature 60 to 70°F, relative humidity below 55%, and provide ventilation.

1.7 OUTDOOR STORAGE

1.7.1 Avoid ground contact by providing skids, pallets, platforms, and other supports.

1.7.2 Provide sunshade protection for products that can be damaged by, or can deteriorate from, exposure to sunlight.

1.7.3 Provide weatherproof covers for products that can be damaged by, or can deteriorate from, contact with rain, snow, ice deposits, and blowing sand and debris. If plastic covers are to be utilized, they will need to be fire rated (i.e., NFPA 701, Type 2), to prevent fire exposures to wildland.

1.7.4 Arrange stacked products so that condensation drains.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

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Construction of Road Crossings for YE44 & YE45

SECTION 01630 PRODUCT OPTIONS AND SUBSTITUTIONS

PART 1 – GENERAL

1.1 SUBMITTALS

1.1.1 See Section 01300 for submittal process.

1.1.2 Approval Required

1.1.2.1 Before starting Work or material delivery to the worksite, submit a completed Substitution Approval Request to Buyer for each requested substitution.

1.1.3 Approval Not Required: None

1.2 CONDITIONS

1.2.1 Products include those identified in this Statement of Work, in the Specifications or other contract documents, and on the Drawings. References in the Specifications to products, or to patented or proprietary processes, by trade name, make, or catalog number, shall be regarded as establishing a standard of quality, and shall not be construed as limiting competition. The following conditions and limitations apply:

1.2.1.1 Substitution requires approval of a Change Form (A-6004-820) if any of the following apply.

- Proposed substitute is more hazardous than the specified product.
- Product callout includes the phrase “or approved substitute.”

1.2.1.2 A substitute may be provided **without approval** if each of the following apply:

- Product callout does not include the phrase “or approved substitute.”
- Product is identified in this Statement of Work by trade name, make, or catalog number.
- Substitute is equivalent in function, maintainability, reliability, durability, material content, form, and size.

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SECTION 01630
PRODUCT OPTIONS AND SUBSTITUTIONS

- 1.2.1.3 Substitution shall be applied to the total quantity of the product required in the Statement of Work. Partial quantity substitutions are not acceptable.

- 1.2.1.4 Approval of fabrication drawings and other design media does not constitute approval of substitute products identified within the media.

- 1.2.1.5 Submittals required for a specified item are also required for an approved substitute.

- 1.3 CHANGE FORM PREPARATION
 - 1.3.1 Using the Buyer Change Form, identify addressed product by the Statement of Work or Specification section and article or paragraph numbers or by the Drawing number. Provide manufacturer's name and address, trade name, and model or catalog number. List fabricators as appropriate.

 - 1.3.2 Attach descriptive information to define the operational and physical characteristics of the specified substitute product and to provide a basis for comparison. Include drawings, calculations, and data as appropriate.

 - 1.3.3 Provide an itemized comparison between the proposed substitute and the original specified product. Include the following information:
 - 1.3.3.1 Applicable Statement of Work or Specification section and article or paragraph numbers or applicable Drawing number.

 - 1.3.3.2 Quality and performance comparison. List variations.

 - 1.3.3.3 Cost data. Show the net Contract price change.

 - 1.3.4 List the availability of maintenance service and replacement materials.

 - 1.3.5 State the effect of the substitution on the schedule and identify the changes required in other work or products. Submit drawings, calculations, and vendor data to show the revisions necessary to accommodate the substitution.

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SECTION 01630
PRODUCT OPTIONS AND SUBSTITUTIONS

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION

01630-3

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Construction of Road Crossings for YE44 & YE45

SECTION 01720 PROJECT RECORD DOCUMENTS

PART 1 – GENERAL

1.1 SUMMARY

- 1.1.1 Hanford Site work requires that certain documents, defined herein, be used to record construction process and administration of the Contract. CPCCo will assemble pertinent data for final disposition.
- 1.1.2 Some data required for project records shall be delivered to CPCCo during the course of construction and contract administration, while other data shall be assembled after completion of construction for delivery to CPCCo.
- 1.1.3 Certain information for project records shall be recorded on CPCCo provided forms. These forms are identified in Specifications sections where required. Copies will be supplied during the Preconstruction Conference (see Section 01200).
- 1.1.4 Project Record Documents, required by Contract, shall be prepared, preserved and delivered to CPCCo. These deliverable documents are in addition to submittals required by Section 01300.

1.2 PROCEDURE

- 1.2.1 Identification and Marking: Mark documents that will become project records before use for construction. Upon completion, identify documents by title or number.
- 1.2.2 Notes or markings added by hand shall be legible, utilizing permanent non-smearing marking media, such as ink or felt tip markers, in contrasting color.
- 1.2.3 Mark items to record actual construction, including changes to dimensions and details, manufacturer's name, catalog number and substitute products.
- 1.2.4 Availability: Keep copies of Project Record Documents at the Project site, and make available to CPCCo during the progress of the Work.
- 1.2.5 Storage: Store one (1) set at the Project site, apart from documents used in construction and maintain in a clean dry and legible condition.

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SECTION 01720
PROJECT RECORD DOCUMENTS

1.2.6 Delivery: Record delivery of documents by retaining copies of letters of transmittal itemizing delivered items and reports delivered during the course of the Work. Retain until construction completion. An alternate means, acceptable to CPCCo, may be used.

1.3 ACTIVITY AND ADMINISTRATIVE DOCUMENTS

1.3.1 Deliver or retain in accordance with the following:

1.3.1.1 The Contractor shall complete Construction Daily Field Report (A-6004-822) and Construction Lost Time/Work Delay Notification (A-6006-539) if applicable. The Contractor shall provide CPCCo with a Construction Daily Activities Field Report identifying detailed work activities performed for the day: craft by name/hours worked and company, Supervision, by name/hours worked and company, any detailed problems/issues/delays, vehicles/equipment used, detailed work activities planned for the next day, Safety observations, Lost Time/Work Delay Block #14, etc. Construction Daily Field Reports shall be submitted by Work Package to CPCCo by 10:00 a.m. each work day documenting the previous work day's activities. DFR's will be filled out until the project is completed or terminated. A DFR shall be submitted on days (normal work days) where no work has been done.

1.3.1.2 Pre-Job Briefing Checklist: Prepare checklist during each pre-job briefing and post-job review. Deliver checklists to CPCCo within 5 days after briefing.

1.4 PRODUCT SAMPLES AND MANUFACTURER'S INSTRUCTIONS

1.4.1 In addition to the submittals required in Section 01300, and the requirements of this Section, information received by Contractor (from suppliers) that document products used and how they were installed shall be delivered to CPCCo as Project Records.

PART 2 – PRODUCTS

Not Used

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Construction of Road Crossings for YE44 & YE45

SECTION 01720
PROJECT RECORD DOCUMENTS

PART 3 – EXECUTION

- 3.1 Submit Compaction Reports as required per ECR-20-000772 shall be provided per Section 01300.

END OF SECTION

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