



**TEMPLATE A  
STATEMENT OF WORK  
FOR  
CONSTRUCTION**

**Requisition #: 359399**

**Title:**

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**Revision Number: 0**

**Date: 05/11/2022**

## TABLE OF CONTENTS

### **DIVISION 1 – GENERAL REQUIREMENTS**

<a href="#">Section 01010</a>	Summary of Work
<a href="#">Section 01036</a>	Request for Clarification (RCI) and Changes
<a href="#">Section 01040</a>	Coordination
<a href="#">Section 01050</a>	Field Engineering
<a href="#">Section 01065</a>	Permits
<a href="#">Section 01110</a>	Occupational Safety / Industrial Hygiene
<a href="#">Section 01130</a>	Environmental, Radiological, and Nuclear Safety
<a href="#">Section 01150</a>	Training and Qualifications
<a href="#">Section 01200</a>	Project Meetings
<a href="#">Section 01300</a>	Submittals
<a href="#">Section 01315</a>	Project Schedules, Project Controls, and Project Performance Milestones
<a href="#">Section 01400</a>	Quality Assurance and Control
<a href="#">Section 01500</a>	Construction Facilities and Temporary Controls
<a href="#">Section 01610</a>	Material and Equipment Delivery, Storage, and Handling
<a href="#">Section 01630</a>	Product Options and Substitutions
<a href="#">Section 01720</a>	Project Record Documents

*Division 1, “General Requirements” are part of the Buyer Construction Statement of Work.*



**SECTION 01010  
SUMMARY OF WORK**

**PART 1 – GENERAL**

**1.1 INTRODUCTION / BACKGROUND**

Central Plateau Cleanup Company (CPCCO, or Buyer) is a prime contractor to the Department of Energy (DOE). This work scope is in support of the installation of the five reinforced equipment Pads for the New Packed Tower Air Stripper at 200 West Pump and Treat.

**1.2 DESCRIPTION OF WORK - GENERAL**

1.2.1 Work is in the 200 West Area of the DOE Hanford Site approximately 30 road miles North of Richland, Washington.

1.2.2 Work consists of the installation of the equipment Pads for the New Packed Tower Air Stripper

**1.3 DESCRIPTION OF WORK - SPECIFIC**

1.3.1 Included Work: installation of the equipment Pads per attached sketches 1 through 8.

1.3.1.1 Provide and manage labor, equipment, material, and services required to complete work. Labor includes participation of Contractor’s employees in training and medical examinations required by Contract.

**1.4 DRAWINGS, SPECIFICATIONS, AND EXHIBITS**

1.4.1 Drawings

1.4.1.1 Drawings that show Work are listed:

Drawing No.	Rev.	Title
Sketches 1 thru 8	-	-

1.4.2 Specifications and Work Processes

1.4.2.1 The Specifications applicable to this Scope are shown below:

Specification No.	Title

01010-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01010  
SUMMARY OF WORK**

SGW-63706	01 43 33 – Manufacturers Field Services
SGW-64286	03 01 32 - Repair of Vertical and Overhead Concrete Surfaces
SGW-64287	03 01 33 - Repair of Horizontal Concrete Surfaces
SGW-64288	03 10 00 - Concrete Forming and Accessories
SGW-64290	03 21 00 - Reinforcing Steel
SGW-64291	03 30 00 - Cast-In-Place Concrete
SGW-64292	03 39 00 - Concrete Curing
SGW-64294	03 63 00 - Concrete Doweling

- The specifications make references to CHPRC as being the contractor. These specifications have not been updated since the transition to CPCCO. Any reference to CHPRC in the specification shall be replaced with CPCCO for contractor responsibilities.

1.4.2.2 Major Buyer 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.”

<u>No.</u>	<u>Title</u>
<i>CPCC-PRO-SH-40078, App F</i>	<i>Contractor Safety Processes – Appendix F, Safety Program Specification for Contractors</i>
<i>CPCC-PRO-WKM-079</i>	<i>Job Hazard Analysis</i>
<i>CPCC-PRO-WHM-12115</i>	<i>Work Management</i>
<i>CPCC-PRO-SH-40410</i>	<i>Hazard Communication Program</i>
<i>CPCC-PRO-SH-40516</i>	<i>Chemical Management Program</i>
<i>CPCC-PRO-SH-28034</i>	<i>Adverse Weather</i>

1.4.3 Exhibits

The exhibits applicable to the Scope are included below:

01010-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01010  
SUMMARY OF WORK**

<b>Exhibit No.</b>	<b>Rev.</b>	<b>Title</b>
A. Form A-6004-822		CPCCO Daily Activity Report (DAR)
B. Form A-6004-757		CPCCO Contractor Document Submittal
C. Form A-6004-833		CPCCO Request for Clarification/Information
D. Form A-6004-967		CPCCO Work Release for Construction Services
E. Form A-6004-750		CPCCO Chemical Inventory Worksheet
F. N/A		P6 Schedule Example
G. Form A-6004-820		CPCCO Contract Change Form
H. Form A-6004-929		CPCCO Construction Completion Document
J. Form A-6004-590		Waste Planning Checklist
K. Form A-6004-952		CPCCO Formal Pre-Job Briefing Checklist
L. Form A-6006-539		Construction Lost Time / Work Delay Notification
M. Form A-6004-967		Work Release for Construction/Service Organizations
N. Form A-6004-783		Craft-Specific Job Safety Analysis/Position Hazard Analysis (K-1 JSA/PHA)
O. Form A-6004-784		Job Hazard Analysis/Activity Hazard Analysis (JHA/AHA) for Subcontractors
P. Form A-6004-785		Task-Specific Job Safety Analysis (K-3 JSA)
Q. Form A-6004-815		Contractor - Job Site Safety Inspection/Observation Checklist
R. Form A-6004-812		Contractor Safety Prequalification Responsibility Determination Worksheet

PART 2 – **PRODUCTS**

Not Used

PART 3 – **EXECUTION**

Not Used

END OF SECTION

01010-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**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 1.4.2.

**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) and are also available on the Buyer web site at the following link: [Submittals, Forms & Docs - Central Plateau Cleanup Company \(hanford.gov\)](http://hanford.gov)

1.3.2 RCIs are used by the Contractor to receive clarification from Buyer at any time during construction. The RCI form is **not** used to document a contract modification, engineering change, or nonconformance. Buyer'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.

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

1.3.3.2 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.

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

01036-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**



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

1.3.4 RCI 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 modification. Changes may be transmitted to the contractor via an approved redline field change drawing and/or Design Change Notice (DCN), or a contract modification formally transmitted to the Contractor.) requesting contractor's proposal and agreement prior to authorization of the change.

1.4.2 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

01036-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## **SECTION 01040 COORDINATION**

### **PART 1 – GENERAL**

#### **1.1 COMMUNICATIONS**

1.1.1 Written communications between Buyer and Contractor shall be sent to the Buyer representative identified under “Administration Contract Correspondence” in the Contract document Part IV – Special Terms section of the Contract Document. The Contractor may interface with various Buyer (and other) organizations through the Buyer 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:

- CPCCO Buyers Technical Representative
- CPCCO 200WP&T Operations
- CPCCO Engineering
- CPCCO Work Management
- CPCCO Waste Management
- CPCCO Quality Assurance
- CPCCO Environmental Compliance
- CPCCO Occupational Safety & Industrial Hygiene (OS&IH)
- CPCCO Fire Protection
- CPCCO Safeguards and Security

1.1.3 Daily construction activity shall be coordinated with Buyer as identified in the Part IV – Special Provisions section 1.11 of the Contract document entitled “Designation of Technical Representative.” “Buyer Technical Representative (BTR).”

1.1.4 When working in a Buyer -designated nuclear facility, Contractor shall be subject to Buyer facility operation constraints and requirements including facility operational control, procedure compliance/interpretation, and stop work provisions. Contractor

01040-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022





**SECTION 01040  
COORDINATION**

- personnel shall respect and adhere to directions received from facility operation personnel when conducting work within the designated facility.
- 1.1.5 Buyer may assign a Senior Supervisory Watch (SSW) to provide Buyer management presence at the job site. The primary purpose of the SSW is to closely oversee on-going work and to serve as an active communicator to ensure safe, effective, and environmentally conscious work.
- 1.2 PREPARATION ACTIVITIES
- Contractor shall be responsible for the following functions, requirements, and design criteria preparatory activities:
- 1.2.1 Ensure equipment, materials, 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 Ensure all Contractor-supplied tools and equipment are in good working order and free form 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             | Biohazards and vermin  |
| Uneven walking surfaces | Excavation & Earth Moving | Ergonomic hazards      |
| Lifting                 | Falling objects           | Hazardous Energy       |
| Radiological Areas      | Sharp Objects             | Temperature Extremes   |
| Mobile Equipment        | Wind and Dust             | Hoisting & Rigging     |
| Portable Hand Tools     | Chemicals                 | Elevated Work Surfaces |

01040-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## **SECTION 01040 COORDINATION**

### **1.3 SECURITY, BADGES, AND DOSIMETERS**

- 1.3.1 Buyer 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 an 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 Buyer -issued security badge identifying himself/herself.
- 1.3.3 If required by this SOW, the Contractor shall obtain, at the Contractor’s expense, a facility clearance and security clearance (e.g., Q, L) for employees prior to obtaining access to the job site.
- 1.3.4 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 through 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.
- 1.4.2 Facility Closure Days through the Project duration are as follows for CY2022
- Memorial Day May 30, 2022
  - Independence Day July 4, 2022
  - Labor Day September 5, 2022
  - Thanksgiving November 24&25, 2022
  - Christmas December 24&25, 2022
  - New Year’s Day December 30, 2022

01040-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## **SECTION 01040 COORDINATION**

### **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:

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

1.5.2.1 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 of from each building trades craft type that are performing the work.

1.5.2.2 The result from the meetings will be the work instructions incorporated into JCS Work Package(s) that will describe the work scope, define required hazard mitigation, and include the necessary permits, hold points, inspection test reports, and associated project documentation needed to safely complete the work scope. The work instructions shall have sufficient detail to control the work so that it is performed safely and provides for required inspections and testing. Work Package(s) shall correspond with the project schedule activities.

1.5.2.3 Work scope that interfaces with any existing Structures, Systems, and Components (SSC's) shall be performed following the preparation and approval of a Facility Modification Package (FMP) prepared by Buyer Engineering in accordance with CPCC-PRO-EN-2001. Typical work scope interfaces include, but are not limited to,

01040-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01040 COORDINATION

electrical systems tie-ins, mechanical/structural system tie-ins, critical lifts, system testing, etc.

- 1.5.2.4 Buyer Work Control will prepare and provide to the Work Package(s) that will invoke requirements for the performance of work. The 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.
- 1.5.2.5 Hazard Identification and Control Requirements will include a 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. Contractor will be involved with scope and hazard analysis which will determine the number of work packages. Each work package will take approximately 12 working days from initial planning to approval.
- 1.5.2.6 Daily release of work packages and approval to work shall be performed using the Work Release for Construction/Services Organization process.
- 1.5.2.7 The Contractor shall prepare a Work Release for Construction/Services Organization form (WRC Sof) (A-6004-967), by 1:00 pm daily, for review and approval by the Construction Manager/BTR prior to performing the next day's work. The WRC Sof shall provide a description of the work including a brief work scope statement, location, required permits, any support required from the Owner including inspections or hold points, special precautions about the planned work, and potential impacts such as contamination and service interruption. The form must describe contractor activities and deliveries at the jobsite.
- 1.5.2.8 This Work Release for Construction/Services Organization Form (WRC Sof) will be used to obtain daily work release approval from the on Shift Operations Manager (SOM). The SOM is the Release Authority (RA) for the facility. The WRC Sof is provided by the Contractor. The Contractor shall complete the work release form and provide it to the BTR / FWS on the afternoon before 1:00 PM prior to the day work is started.
- 1.5.2.9 Only work scope identified in an individual contract release may be released. Daily work will be limited by Buyer Facility Work Authorization to work described on an approved WRC Sof form, unless additions are approved by the BTR / FWS to facilitate unforeseen changes to the planned day's workscope.

01040-5

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## SECTION 01040 COORDINATION

1.5.3 NOTE: The end-of-the-day meeting will be a Plan of the Day (POD) to plan the following day's work activities. The POD is a conference call every working day at 2:30 PM. The BTR will provide call in information.

1.5.4 Hazard Identification and Mitigation

The Contractor will develop and maintain a work site Job Safety Analysis in accordance with CPCC-PRO-SH-40078 – Contractor Safety Processes, Appendix I – Job Hazard Analysis Process for Subcontractors

### PART 2 – PRODUCTS

Not Used

### PART 3 – EXECUTION

Not Used

END OF SECTION

01040-6

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## **SECTION 01050 FIELD ENGINEERING**

### **PART 1 – GENERAL**

#### **1.1 CONTROL POINTS**

1.1.1 Basic reference points, benchmarks, 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.

1.3.4 Refer to the Contract document Part IV, Special Provisions – Construction Services SP-4’s referenced clause FAR 52.256-27, “Layout of Work.”

01050-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01050  
FIELD ENGINEERING**

PART 2 – **PRODUCTS**

Not Used

PART 3 – **EXECUTION**

Not Used

END OF SECTION

01050-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## SECTION 01065 PERMITS

### 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.

1.1.1.1 Washington State Department of Ecology (Ecology)

State Waste Discharge Permit

1.1.1.2 National Fire Protection Association (NFPA)

1 Fire Code

NFPA 70-2020 National Electrical Code (NEC)

#### 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 Buyer at no cost, unless otherwise stated.

1.3.2 Notify Buyer 5 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 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 Buyer 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

01065-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022





## SECTION 01065 PERMITS

behavior, the Contractor shall stop work in the immediate vicinity of the nest and shall contact Buyer for additional review and required action.

### 1.4 PERMITS

1.4.1 Hanford Site Oversize/Overweight Permit <https://servicecatalog.ksr.rl.gov/>: Required for each vehicle and/or non-reducible load that exceeds the dimensions or weights shown in SP-4.

1.4.2 State Waste Discharge Permit: Buyer has already obtained the required permit. No discharges of water are allowed or authorized within 300 horizontal feet of any known crib, catch basin, infiltration trench, or underground disposal area.

### PART 2 – PRODUCTS

Not Used

### PART 3 – EXECUTION

Not Used

END OF SECTION

01065-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**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 Contract to 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 Institute of Electrical and Electronics Engineers (IEEE)

C2	National Electrical Safety Code (NESC)
----	--

1.1.1.3 National Fire Protection Association (NFPA)

NFPA 70-2020	National Electrical Code (NEC)
--------------	--------------------------------

**1.2 SUBMITTALS**

1.2.1 See Section 01300 for submittal process.

1.2.2 Approval Required

1.2.2.1 Safety and Health Program: CPCC-PRO-SH-40078, *Contractor Safety Processes* Appendix F 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 the Contract document Part IV, Special Provisions – On-Site Services (SP-5). Contractor shall notify the Contract Specialist if the name of the Designated Safety Representative changes.

01110-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01110**  
**OCCUPATIONAL SAFETY / INDUSTRIAL HYGIENE**

1.2.2.3 Job Safety Analysis (JSA) / Job Hazard Analysis (JHA): Prior to onsite work, submit JSA/JHA identifying safety hazards as required by this Section.

1.2.3 Approval Not Required: None

**1.3 SAFETY**

1.3.1 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 Buyer 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. **NOTE: It is anticipated that a minimum of one monthly drill will take place. Drill duration approximately 2 hours.**

**1.3.5 When drilling into concrete Contractor shall Use drill equipped with commercially available shroud or cowl with dust collection system. Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter cleaning mechanism, Use a HEPA filtered vacuum for cleaning out the holes.**

1.3.6 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. Buyer does not specify or recommend any brand-name gloves; but does require these gloves to be rated as cut/puncture resistant.

01110-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01110 OCCUPATIONAL SAFETY / INDUSTRIAL HYGIENE

1.3.7 Contractor shall review the work scope, location, and hazards to determine if the activity is skill-based or beyond skill-based work (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.

### **1.4 HAZARD IDENTIFICATION**

1.4.1 Submit a JSA/JHA for general office duties performed in office facilities or ground-level observations/walkthroughs in radiological-controlled areas requiring a General (Not Specific) Radiological Work Permit (RWP) only. Observation activities only are allowed under this JSA/JHA; no hands-on work activities may be performed. Only ground-level observations are permitted; no ladder/scaffolding access is allowed.

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

1.4.1.2 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 are 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 Buyer, 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 are required for Contractor personnel prior to starting work on the Hanford Site. See SP-5.

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.

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

01110-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01110**  
**OCCUPATIONAL SAFETY / INDUSTRIAL HYGIENE**

**PART 2 – PRODUCTS**

Not Used

**PART 3 – EXECUTION**

- 3.1 Buyer will provide Hanford medical facilities for emergency or life-threatening injury situations (those requiring immediate medical attention). All injuries, accidents, fires, and near misses shall be reported to Buyer, including fires that are extinguished without causing damage.
- 3.2 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 Buyer. Contractor shall not be additionally compensated in terms of cost or schedule for weather-related shutdowns (Refer to Contract Part IV General Provisions, Paragraph 5.3 Delays – Force Majeure). Buyer 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 below.
- 3.3 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* and CPCC-PRO-SH-121 *Heat Stress Controls* for:
- Heat Stress
  - Lightning Safety
  - Wind Conditions
  - Snow and Ice Safety
  - Torrential Rain and Hail Safety
  - Early Release Due to Adverse Weather

In addition to these warnings, Buyer 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

01110-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01110**  
**OCCUPATIONAL SAFETY / INDUSTRIAL HYGIENE**

and access points around their offices and work areas and the job-site within the project boundaries.

- In response to winter storm conditions, Buyer may close the Site or release Contractor's employees early. If so, Buyer will make appropriate announcements and coordinate the closure or early dismissal.
- The Contractor shall be responsible for freeze protection in all areas turned over to the Contractor by Buyer.

END OF SECTION

01110-5

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**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.

1.1.1.1 Code of Federal Regulations (CFR)

Title 10	Energy
Part 820	Procedural Rules for DOE Nuclear Activities
Part 830	Nuclear Safety Management
Part 830.122	Quality Assurance Criteria
Part 835	Occupational Radiation Protection
Title 29	Labor
Part 1910	Safety and Health Regulations for General Industry
Section 1200	Hazard Communication
Part 1926	Safety and Health Regulations for Construction
<i>Title 40</i>	<i>Protection of Environment</i>
<i>Part 82</i>	<i>Protection of Stratospheric Ozone</i>
<i>Part 112</i>	<i>Oil Pollution Prevention</i>
<i>Part 280</i>	<i>Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)</i>

1.1.1.2 Washington State Department of Ecology (Ecology)

State Waste Discharge Permit

01130-1

*At CPCCo, Safety is no accident*

**SECTION 01130**  
**ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY**

- 1.1.1.3 National Fire Protection Association (NFPA)
  - 30 Flammable and Combustible Liquids Code
- 1.1.1.4 Revised Code of Washington (RCW)
  - Title 46 Motor Vehicles
    - Chapter 46.11 Vehicle Licenses
- 1.2 SUBMITTALS**
  - 1.2.1 See Section 01300 for submittal process.
  - 1.2.2 Approval Required
    - 1.2.2.1 Waste management information: Five workdays before starting work, submit a Waste Management Plan, in accordance with the Contract document Part IV, Special Provisions – Construction Contracts (SP-4) and Special Provisions – On-Site Services (SP-5), for managing waste generated during work.
    - 1.2.2.2 Safety data sheets (SDS): Before starting work, submit SDS for hazardous chemicals (1.10.2). Chemical sources: one work days 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.) (1.10.3).
    - 1.2.2.3 Chemical inventory: before starting work, submit inventory of chemicals that will be brought to the worksite in accordance with SP-4, SP-5, and this Section.
    - 1.2.2.4 Air emissions: before starting work, submit inventory of air emission sources to be used on Site (1.11).
    - 1.2.2.5 Dust control plan: before starting work, submit a Dust Control Plan in accordance with the Benton Clean Air Authority (**Error! Reference source not found.**).
  - 1.2.3 Approval Not Required: None
- 1.3 WASTE MINIMIZATION**
  - 1.3.2 Minimize waste in accordance with the following waste management hierarchy.
    - a. Source reduction

01130-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**



**SECTION 01130**  
**ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY**

- b. Reuse
- c. Recycling
- d. Compliant disposal

1.3.3 Source Reduction

1.3.3.3 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. Before substitution, obtain approval in accordance with Section 01630.

1.3.3.4 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.

1.3.3.5 Packaging: Minimize packaging brought on worksite. Whenever feasible, return empty containers to vendor.

1.3.3.6 Waste segregation: Separate wastes to avoid creating additional wastes and mixtures that cannot be recycled, or that may be more difficult to manage.

1.3.3.7 Process modification: Streamline processes for more efficient operation and less waste generation.

1.3.3.8 Reuse/Recycling: Ensure that materials are reused, if possible, rather than discarded as waste.

**1.4 DISPOSAL OF INERT/DEMOLITION AND NONHAZARDOUS WASTE**

1.4.2 Handle and dispose of waste in accordance with applicable federal, state, and local laws, regulations and requirements, Contract document Part IV, Special Provisions – On Site Services (SP-5) and this Section. Notify Buyer prior to shipment of inert/demolition waste for radiological survey by others if removing from contaminated area.

1.4.3 Non-hazardous: Dispose of non-hazardous debris using bins provided by Contractor.

1.4.4 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.

01130-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01130**  
**ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY**

1.4.5 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**

1.5.2 Hazardous materials shall be managed in accordance with SP-5. Promptly report all spills of hazardous waste.

1.5.3 Flammable/combustible liquid storage shall be in accordance with NFPA 30.

**1.6 DISPOSAL OF ASBESTOS**

1.6.2 Contractor shall not perform any work that would disturb asbestos-containing material nor remove any load-bearing structures of any building without first notifying the BTR.

**1.7 DISPOSAL OF DANGEROUS AND MIXED WASTE**

1.7.2 Handle and dispose of waste in accordance with applicable federal, state, and local laws, regulations and requirements and Buyer procedures. Hanford-specific requirements also apply to dangerous and mixed waste generated on the Hanford Site.

1.7.2.3 Notify Buyer 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.

1.7.2.4 Upon notification by Contractor, Buyer will establish a satellite accumulation area containers or a 90-day container within worksite and select and provide labeled containers affixed with numbers. Contractor shall provide a digital fish scale or comparable weighing device at satellite accumulation area and shall ensure personnel responsible for the satellite accumulation area are properly trained.

1.7.3 Separately accumulate waste from each waste stream in accordance with applicable federal, state, and local laws.

1.7.3.3 During spill cleanup and waste accumulation, cumulatively record waste inventory on Waste Container Log (A-6004-995).

1.7.3.4 Containers are set up and managed by Buyer. Manage waste in accordance with SP-5.

01130-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01130**  
**ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY**

1.7.4 Buyer will coordinate pick up and disposal of properly sealed dangerous waste after notification by Contractor.

1.7.5 Buyer will conduct bi-weekly inspection of satellite accumulation areas containers and 60-day containers.

**1.8 RADIOLOGICAL CONTROL**

**1.8** If work is deemed Radiological, the Contractor shall be subject to 10 CFR 835, the Buyer Radiological Control Manual, CPCCO-00073.**NUCLEAR AND CRITICALITY SAFETY**

1.8.1 If work is deemed nuclear-related, the Contractor shall be subject to 10 CFR 830.122, and the enforcement actions under 10 CFR 820.

**1.9 LIQUID EFFLUENTS**

1.9.1 In accordance with the Contract documents Part IV, Special Provisions – 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 Buyer’s Chemical Management System Program. The Contractor shall fill out and keep current a Chemical Inventory Worksheet (form A-6004-750).

1.9.2 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.

1.9.3 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.).

1.9.4 Concrete rinsate discharge locations require approval by Buyer. Planned discharge authorization forms (A-6004-990 Rev 4) shall be completed and approved prior to discharge.

1.9.5 Liquid discharge for hydrotesting, flushing, or other construction operation other than dust control, requires pre-approval by Buyer and shall be performed in accordance with the State Waste Discharge Permit.

- No water shall be discharged within 100 horizontal feet of any known crib, catch basin, infiltration trench, or underground disposal area.

01130-5

*At CPCCo, Safety is no accident*

**SECTION 01130**  
**ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY**

- No discharge shall be allowed within a surface contaminated area (areas with dangerous waste and/or radioactive contaminants), unless discharge is an approved incidental release.
- Other restrictions identified in the State Waste Discharge Permit and the accompanying conditions include the need to reuse/recycle and the need to discharge to the Treated Effluent Disposal Facility; discharge rate, volume, additives, source water, contaminants, and logging are also covered in permit conditions (Pollution Prevention and Best Management Practices section).

**1.10 AIR EMISSIONS**

1.10.1 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).

1.10.2 Contractor shall take reasonable precautions to minimize fugitive dust during performance of this work.

1.10.3 Contractor shall not conduct open burning without the express written approval of BTR or CM.

1.10.4 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.

**1.11 CONTINGENCIES**

1.11.1 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.

1.11.2 Notify Buyer upon occurrence or discovery of hazardous substances and non-hazardous material spills and of unforeseen dangerous waste generation.

01130-6

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01130**  
**ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY**

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.

**PART 2 - PRODUCTS**

Not Used

**PART 3 - EXECUTION**

Not Used

END OF SECTION

01130-7

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## 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 40,382,383,385,387	Commercial Driver's License Standards
Part 390-397	Federal Motor Carrier Safety Regulations
Part 851	Worker safety & Health Program (851.25)

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

92-36 Hoisting and Rigging Manual

0355 Hanford Standardized HAZWOPER Training Program Description)

##### 1.1.1.3 Washington Administrative Code (WAC)

Title 296 Department of Labor and Industries

#### 1.2 SUBMITTALS

1.2.1 See Section 01300 for submittal process.

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

#### 1.3 REQUIREMENTS

01150-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01150 TRAINING AND QUALIFICATIONS

### 1.3.1 General

1.3.1.1 Contractor is expected to provide appropriately trained and qualified staff to perform the type of work associated with their skill of craft (Electrician, Pipefitter, etc.) at the Hanford Site. The Contractor shall provide a base staff consisting of a safety representative (SR) and FWS to administer the work.

### 1.3.1.2 Personnel Qualification

The FWS shall be present during all craft work; the FWS & SR shall be present on site daily for the pre-job meeting and for coordination while craft are performing work scopes.

#### **On-Site Safety Representative**

- Must have a Construction Health and Safety Technician Certification or Occupational Health and Safety Technologist Certification by the Council on Certification of Health, Environmental and Safety Technologists, or be an Associate Safety Professional or a Certified Safety Professional from the American Board of Certified Safety Professionals.
- 10 years full time experience in a safety and health position in industrial safety, and familiar with radiological contaminated materials and chemical and hazardous material handling experience.

#### **On-site Field Work Supervisor**

- 10 years general construction experience.
- 5 years Supervisory Level, which shall include labor management associated with bargaining units.

1.3.1.3 Familiar with supervising work involving radiological contaminated materials and chemical and hazardous material handling experience.

1.3.1.4 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.

1.3.1.5 Required training shall be completed prior to related work being performed.

1.3.1.6 Buyer will provide task- or facility-specific training required for the Hanford Site, which includes the class, instructor, and required training material. Contractor is responsible for cost of labor to complete all required training.

01150-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01150 TRAINING AND QUALIFICATIONS

- 1.3.1.7 When offsite equivalent training is available, **Contractor is responsible for all training costs.** Buyer will provide equivalent onsite training or reimbursement for any equivalent onsite/offsite training costs approved by Buyer prior to training.
- 1.3.1.8 Buyer will provide for on-the-job evaluations (OJE) when they are required by Contract.
- 1.3.1.9 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.
- 1.3.1.10 Contractor shall maintain copies of personnel training records at the jobsite.
- 1.3.2 Site-Required Training
  - 1.3.2.1 Buyer General Employee Training (CGET) or 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. Contact Buyer.
  - 1.3.2.2 When performing work in a Buyer-designated operating nuclear facility, Contractor personnel shall receive all required Facility Emergency Hazard Identification Checklist (FEHIC) training, facility safety basis overview, and facility system overview prior to performing work.
- 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.



**Note: Employee training is tailored to the work task performed by each employee. Contractor shall submit a training matrix to identify worker assignment and applicable training for each employee.**

01150-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01150  
TRAINING AND QUALIFICATIONS**

Hanford Course Number	Course Title	CPCCO Documents	Off-site training acceptable (Yes / No)	Comments
000001	HANFORD GENERAL EMPLOYEE TRAINING (HGET) INITIAL	CPC-PRO-TQ-40164	N	<ul style="list-style-type: none"> <li>1 yr retrain</li> <li>CBT</li> <li>Required for all accessing personnel</li> </ul>
000006	CPCCO-General Employee Training	CPC-PRO-TQ-40164	N	<ul style="list-style-type: none"> <li>1 yr retrain</li> <li>CBT</li> <li>Required for all accessing personnel</li> </ul>
600644	GHA	CPC-PRO-WKM-079	N	<ul style="list-style-type: none"> <li>1yr retrain</li> <li>CBT</li> <li>Required for all accessing personnel</li> </ul>
600630	Conduct of Work		N	<ul style="list-style-type: none"> <li>CBT</li> <li>Required for all accessing personnel</li> </ul>
042865	Advanced Rigging	DOE-RL-92-36	N	<ul style="list-style-type: none"> <li>Prerequisite 042310 and 040784</li> <li>5yr retrain</li> <li>Complete a Hanford site specific OJE</li> </ul>
042310	Advanced Rigging Techniques	DOE-RL-92-36	Y	<ul style="list-style-type: none"> <li>Prerequisite 040784.</li> <li>5 yr retrain period.</li> <li>12 hr classroom</li> <li>Must complete a site specific examination.</li> <li>Present journeyman card, certificate of completion or training record.</li> </ul>
040784	Basic Crane & Rigging Safety	DOE-RL-92-36	Y	<ul style="list-style-type: none"> <li>5 yr retrain period.</li> <li>16 hr classroom</li> <li>United Brotherhood of Carpenters class accepted; MSA Letter CPL600000-08-02.</li> <li>Must complete a site specific examination.</li> <li>Present journeyman card, certificate of completion or training record.</li> </ul>
04467E	Class 6 Forklift - Electric & Internal Combustion Engine (OJE)	DOE-RL-92-36	N	<ul style="list-style-type: none"> <li>Prerequisite 044470</li> <li>3 yr retrain</li> <li>Complete a Hanford Site specific OJE.</li> </ul>
<b>044676</b>	Class 8 Forklift Operator Qualification (OJE)	DOE-RL-92-36	N	<ul style="list-style-type: none"> <li>Prerequisite 044470</li> <li>3yr retrain</li> <li>Complete a Hanford Site specific OJE.</li> </ul>

01150-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01150 TRAINING AND QUALIFICATIONS

044470	Forklift Operational Safety	DOE-RL-92-36	Y	<ul style="list-style-type: none"> <li>• 3 yr retrain period.</li> <li>• 6 hr classroom</li> <li>• United Brotherhood of Carpenters class accepted; MSA Letter CPL600000-08-03.</li> <li>• Must complete a site specific examination.</li> <li>• Present journeyman card, certificate of completion or training record.</li> </ul>
042820	Wire Rope/Rigging Hardware Inspection	DOE-RL-92-36	Y	<ul style="list-style-type: none"> <li>• Prerequisite 040784.</li> <li>• 5 yr retrain period.</li> <li>• 12 hr classroom</li> <li>• Must complete a site specific examination.</li> <li>• Present journeyman card, certificate of completion or training record.</li> </ul>
301851	SGRP Facility Emergency & Hazardous Info Checklist – FEHIC	CPCC-PRO-EM-7647	N	<ul style="list-style-type: none"> <li>• 1 yr retrain</li> <li>• CBT</li> <li>• Required for all accessing personnel</li> </ul>
301850	SGRP Project Orientation	SGRP-STD-TQ-54227	N	<ul style="list-style-type: none"> <li>• 1 yr retrain</li> <li>• CBT</li> <li>• Required for all accessing personnel</li> </ul>
290225	SGO Cultural Sensitivity	N/A	N	<ul style="list-style-type: none"> <li>• 1 yr retrain</li> <li>• CBT</li> <li>• Required for all personnel that may encounter area of cultural significance.</li> </ul>
031210	24-Hour Hazardous Waste Site Worker	CPCC-MP-TQ-011	Y	<ul style="list-style-type: none"> <li>• 1 yr retrain</li> <li>• 24 hr classroom</li> <li>• Training maintains a database of accepted vendors or other DOE sites.</li> <li>• Present certificate of completion or training record.</li> <li>• Provide site specific information.</li> </ul>
031410	1-Day Supervised Field Experience	CPCC-MP-TQ-011	Y	<ul style="list-style-type: none"> <li>• Checklist</li> </ul>
026100	OSHA 10-Hour Health and Safety	N/A	Y	<ul style="list-style-type: none"> <li>• 10 hr classroom</li> <li>• Present certificate of completion or training record.</li> </ul>
044391	Portable Ladder Safety - CBT	CPCC-RD-SH-24243	Y	<ul style="list-style-type: none"> <li>• CBT</li> <li>• Present certificate of completion or training record.</li> </ul>
044480	Electrical Safety for non – Electrical Workers Cord and Power Tool Safety	DOE-359	Y	<ul style="list-style-type: none"> <li>• 3 yr retrain period.</li> <li>• 4 hr classroom</li> <li>• Present electrician license, journeyman card, certificate of completion or training record.</li> </ul>

01150-5

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01150  
TRAINING AND QUALIFICATIONS**

044605	Equipment Operation Near Power Lines	CPCC-RD-SH-28954	Y	<ul style="list-style-type: none"> <li>• 3 yr retrain period.</li> <li>• 4 hr classroom</li> <li>• Present electrician license, journeyman card, certificate of completion or training record.</li> </ul>
043870	NFPA-70E Standards for Electrical Safety	DOE-359	Y	<ul style="list-style-type: none"> <li>• 3 yr retrain</li> <li>• 16 hr classroom</li> <li>• International Brotherhood of Electrical Workers class accepted; MSA Letter RML46000-09-06.</li> <li>• Present electrician license, journeyman card, certificate of completion or training record.</li> </ul>
170500	Basic Medic First Aid/ CPR/AED	DOE-359	Y	<ul style="list-style-type: none"> <li>• 2 yr retrain</li> <li>• 8 hr classroom</li> <li>• Labors International Union of North America class accepted; MSA Letter RML46000-09-04.</li> <li>• International Union of Operating Engineers class accepted; MSA Letter RML46000-09-05.</li> <li>• Present journeyman card, certificate of completion or training record.</li> </ul>
020147	Fall Hazard Recognition and Prevention	CPCC-RD-SH-8801	Y	<ul style="list-style-type: none"> <li>• 3 hr classroom</li> <li>• SMART MARK class accepted; MSA Letter CPL600000-08-04.</li> <li>• Present journeyman card, certificate of completion or training record.</li> </ul>
020194	Hearing Conservation	CPCC-RD-SH-11812	Y	<ul style="list-style-type: none"> <li>• 1 yr retrain period.</li> <li>• CBT</li> <li>• Present certificate of completion or training record.</li> </ul>
020193	Heat Stress Training – CBT	CPCC-PRO-SH-121	Y	<ul style="list-style-type: none"> <li>• 2 yr retrain period.</li> <li>• CBT</li> <li>• Present certificate of completion or training record.</li> </ul>
003131	Hanford Site Lockout/Tagout for Authorized Worker - Initial	DOE-0336	N	<ul style="list-style-type: none"> <li>• 1 yr retrain</li> <li>• 8 hr classroom</li> </ul>
044606	Spotter Training for Electrical Hazards	DOE-359	Y	<ul style="list-style-type: none"> <li>• 2 hr classroom</li> <li>• Present certificate of completion or training record.</li> <li>• Not required if 044605 is complete</li> </ul>
<b>60038A</b>	Electrician Verification	DOE-359	Y	<ul style="list-style-type: none"> <li>• Verifies and records electrician status</li> </ul>
<b>044482</b>	DOE-0359	DOE-0359		<ul style="list-style-type: none"> <li>• 3 yr retrain</li> <li>• 4 hr classroom</li> <li>• Required for all electrical workers</li> </ul>

01150-6

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01150  
TRAINING AND QUALIFICATIONS**

000396	OJT Evaluator			•
000397	OJE Evaluator			•
044674	Propane Bottle Change-Out			•
080403	WSAP CBT			•
080408	Alcohol Testing Program Policy and Testing			•
080402	WSAP Manager Briefing			•

**PART 2 - PRODUCTS**

Not Used

**PART 3 - EXECUTION**

Not Used

END OF SECTION

01150-7

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## 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 Buyer 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 Buyer, 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, Buyer will conduct a conference at a time and Hanford Site location agreed to by Contractor and Buyer.

1.3.2 Invited attendees will include Buyer, 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.

- a. Certified payrolls
- b. Construction Progress Meetings

01200-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01200  
PROJECT MEETINGS**

- c. Forms required by the Contract. Buyer will provide reproducible masters
- Construction Daily Activity Report (A-6004-822)
  - Work Release for Construction Service Organization (A-6004-967)
  - Change Form (A-6004-820)
  - Chemical Inventory Worksheet (A-6004-750)
  - Contractor Document Submittal Form (A-6004-757)
  - Request for Clarification or Information (RCI) (A-6004-833)
  - Craft-Specific Job Safety Analysis/Position Hazard Analysis (K-1 JSA/PHA) (A-6004-783)
  - Job Safety analysis/Activity Hazard Analysis (K-2 JSA/AHA) (A-6004-784)
  - Task-Specific Job Safety analysis (K-3 JSA) (A-6004-785)
  - Significant Discharge Log (A-6002-294)
  - Contractor – Job site safety inspection/observation checklist (A-6004-815)
  - Other Site Forms that may be reviewed that this meeting:

Form No.	Title
A. Form A-6005-436	Generator Initial Start-Up Checklist
B. Form A-6005-437	Hanford Generator Re-Start-Up Checklist
C. Form A-6004-929	Construction Completion Document
D. Form A-6004-590	Waste Planning Checklist
E. Form A-6004-952	Formal Pre-Job Briefing Checklist
F. Form A-6006-539	Construction Lost Time / Work Delay Notification
G. Form A-6004-286	Fall Protection Work Permit
H. Form A-6006-914	Mobile Equipment Daily Pre-Use Inspection Checklist
I. Form A-6006-916	Mobile Equipment Operation Worksite Pre-Use Checklist
J. PTS-TO-15-001	Compensatory Actions for Conduct of Operations Events
K. PTS-TO-16-001	Compensatory Action for LO/TO Events
L. Form A-6005-414	PRC ERDF Container Verification Data Sheet
M. Form A-6004-990	Planned Discharge

- d. Material and equipment lists

01200-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01200 PROJECT MEETINGS

- e. Points of contact and key personnel representing the Contractor and Buyer. Areas covered will include safety, quality assurance and quality control, Price Anderson Amendment Act (PAAA), acceptance inspection, and construction engineering
- f. Quality requirements
- g. Report requirements
- h. Safety
- i. Schedule requirements, schedule constraints, and work limitations
- j. Submittals

### 1.4 CONSTRUCTION PROGRESS MEETINGS

- 1.4.1 Every week Buyer will conduct a progress meeting at time and Hanford Site location determined during the Preconstruction Conference.
- 1.4.2 Invited attendees will include Buyer, Contractor, and subcontractors.
- 1.4.3 The purpose of the meetings is the exchange of Work-related information. Average meeting will last approximately 3 hours 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
- 1.4.4 Contractor to provide six (6) copies of 2-week look-ahead schedule for review during the meeting. Refer to Section 01315 for level of detail required on 2-week look-ahead schedule.
- 1.4.5 The Contractor shall complete Construction Daily Activities Field Reports (A-6004-822, Rev 3) and Lost Time/Work Delay Notification (A-6006-539 Rev.1) if applicable. The Contractor shall provide Buyer with a Construction Daily Activities Field Report identifying detailed work activities performed for the day: craft by

01200-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## SECTION 01200 PROJECT MEETINGS

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 Activities Field Reports shall be submitted by Work Package to Buyer by 10:00 a.m. each workday documenting the previous work day's activities. DAR's will be filled out until the project is completed or terminated. A DAR 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*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## SECTION 01300 SUBMITTALS

### PART 1 – GENERAL

#### 1.1 SUMMARY

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 Buyer OS/IH Manual. Required submittals are also summarized by Buyer on the Master Submittal Register. An example submittal register is shown 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.

- 1.1.1 Requests for substitutions are prepared in accordance with Section 01630 and processed in accordance with this Section. “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 Buyer 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 Buyer is under 1 week and is measured from date of submittal’s receipt by Buyer 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 Buyer Construction Document Control by the Contractor using the Contractor Document Submittal (A-6004-757). Instructions for completion of the submittal are included with the form.

01300-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## SECTION 01300 SUBMITTALS

- 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 Buyer as complete shall be re-submitted using the submittal form and in accordance with the Contractor’s Buyer-approved Quality Assurance Program.

### 1.4 MASTER SUBMITTAL REGISTER

A submittal register will be provided to the Contractor at the time of proposal.

### PART 2 – PRODUCTS

Not Used

### PART 3 – EXECUTION

Not Used

END OF SECTION

01300-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## SECTION 01300 SUBMITTALS

### Master Submittal Register

This Submittal Register lists the required approval submittals and Information submittals listed in each Technical and Supporting Specification.

Provide one (1) electronic copy of the requested information in PDF format.

#### Submittal Register Definitions

1. Numerical submittal sequence number: Indicate equipment Task number followed by a sequential number. Example: P2-1, P2-2, P2-3, P2- 4.
2. Submittal Type and Number of Copies:

- a. Submittal Type:

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

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

- b. Number of Copies:

Provide one (1) electronic copy in PDF format.

Designate for hard or electronic copies including number of copies desired.

Example: E1 (One Electronic only), H6 (Six Hard Copies), or H6/E1 (Six Hard Copies, and One Electronic).

3. Technical Submittal: Designate "yes" if submittal is designated as Technical. Utilize form A-6004-758 "*CONTRACTOR SUBMITTAL COMMENT RESPONSE FORM*" for all "yes" designations. See Instructions for completion of the form.
4. Vendor Information: Mark Yes if document(s) are VI.
5. Description / Document Title: Title or general description of the document. Include in this block the required format as follows:

Provide all submittals in PDF format.

<b>DWG</b>	An AutoCAD drawing using the Hanford standard formatting (See HNF-14660, <i>Off-Site Vendor Directions of the Preparation and Control of Engineering Drawings</i> ).
<b>MFC</b>	Microsoft Format Compatible application (Word, Excel, Access, PowerPoint)
<b>P6</b>	A Primavera Project Planner schedule, Revision 17
<b>GEN</b>	General or Open Format/Media
<b>PDF</b>	Adobe Acrobat (Portable Document Format)

01300-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



## SECTION 01300 SUBMITTALS

6. Submittal Date: Actual date or number of Calendar Days before or after a milestone that a submittal is due from the Contractor: Example: June 1, 2005 or CD + 60 [60 days after Conceptual Design Complete]
- |           |                             |
|-----------|-----------------------------|
| <b>A</b>  | Date of Award               |
| <b>CD</b> | Conceptual Design Complete  |
| <b>PD</b> | Preliminary Design Complete |
| <b>FD</b> | Final Design Complete       |
| <b>SF</b> | Start of Fabrication        |
| <b>EF</b> | End of Fabrication          |
| <b>DL</b> | Delivery                    |
| <b>I</b>  | Installation                |
| <b>S</b>  | Startup                     |
7. Approver Organization(s).
8. CPCCO Review Time (Workdays): Example: 3 Days.
9. Contract Reference: Cross reference to the Contract requirement that defines this submittal: Example: SOW 3.1.2.

01300-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01300A  
MASTER SUBMITTAL REGISTER**

Contract Number and Name:						Revision:		
1	2	3	4	5	6	7	8	9
No.	Type, and Number of Copies	Technical Submittal	Vendor Information	Description / Document Title	Submittal Date	Approver	CPCCO Review Time	Contract Paragraph or Requirement Reference
	(pdf)				(Calendar Days)	Organizations	(Work Days)	
-01	APW	NO		Field Work Supervisor	A + 5	ENG, S&H	4	01150
-02	APW	NO		Designated Safety Representative	A + 5	S & H	4	01150
-03	APW	NO		Safety Training Records	A + 5	S & H	4	01110
-04	APW	NO		Chemical Inventory Worksheet and SDSs	A + 5	S & H, FCC	8	01130
-05	APW	NO		Air Emissions Sources Inventory	A + 5	ENV	4	01130
-06	APW	NO		Employee Job Task Analysis	A + 5	S & H	4	01110
-07	APW	NO		DOT Program Certificate (If using Teamsters on contract)	A + 15	Transportation/BTR	4	01150
-08	AP	NO		Training matrix to identify worker assignment and applicable training for each employee.	Weekly	Construction Manager	4	01150, 1.2.2.4
-09	APW	NO		Job Hazard Analysis and safety requirements	A + 5	Safety	4	01110, 1.4.1.1

01300A-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01300A  
MASTER SUBMITTAL REGISTER**

Contract Number and Name:						Revision:		
1	2	3	4	5	6	7	8	9
No.	Type, and Number of Copies	Technical Submittal	Vendor Information	Description / Document Title	Submittal Date	Approver	CPCCO Review Time	Contract Paragraph or Requirement Reference
	(pdf)				(Calendar Days)	Organizations	(Work Days)	
-10	APW	NO	NO	Safety Prequalification Responsibility Determination Worksheet	A + 5	BTR,Safety	4	01010
-11	APW	NO	NO	Contractor's list of recommended substitutions	A + 30	Engineering	4	01630, 1.1.2.1
-12	AP	NO	NO	Nonconformance Items	EF	Engineering, QA	4	01400, 1.6.1
<b>Section 01 43 33 - Manufacturer's Field Services</b>								
-01	AP	NO	NO	Manufacturer's Certificate of Compliance	DL	Engineering	4	3.02
-02	AP	NO	NO	Manufacturer's Certificate of Proper Installation	I	Engineering	4	3.03
<b>Section 03 01 32 - Repair of Vertical &amp; Overhead Concrete Surfaces</b>								
-01	APW	NO	NO	Product Data Sheets	A+30	Engineering	4	1.03.B.1
-02	APW	NO	NO	Samples	A+30	Engineering	4	1.03.B.2
-03	AP	NO	NO	Mortar System	A+30	Engineering	4	1.03.C.1
-04	AP	NO	NO	Mesh Manufacturer's Data	A+30	Engineering	4	1.03.C.2

01300A-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01300A  
MASTER SUBMITTAL REGISTER**

Contract Number and Name:						Revision:		
1	2	3	4	5	6	7	8	9
No.	Type, and Number of Copies	Technical Submittal	Vendor Information	Description / Document Title	Submittal Date	Approver	CPCCO Review Time	Contract Paragraph or Requirement Reference
	(pdf)				(Calendar Days)	Organizations	(Work Days)	
-05	AP	NO	NO	Description of Equipment Proposed for Hydro Surface Prep Demolition	A+30	Engineering	4	1.03.C.3
-06	AP	NO	NO	Certificates	A+30	Engineering	4	1.03.C.4
-07	AP	NO	NO	Statements of Qualification	A+30	Engineering	4	1.03.C.5
-08	AP	NO	NO	Mortar System Manufacturer's Proposed Test Procedures	A+30	Engineering	4	1.03.C.6
<b>Section 03 01 33 - Repair of Horizontal Concrete Surfaces</b>								
-01	APW	NO	NO	Mortar System Manufacturer's Test and Product Data	A+30	Engineering	4	1.02.B
-02	AP	NO	NO	Mortar System Manufacturer's Certificate of Compliance	A+30	Engineering	4	1.02.C.1.a
-03	AP	NO	NO	Mortar System Manufacturer's Material confirmation	A+30	Engineering	4	1.02.C.1.b
-04	AP	NO	NO	Mortar System Manufacturer's Bonding Agent confirmation	A+30	Engineering	4	1.02.C.1.c
-05	AP	NO	NO	Mortar System Manufacturer's Certificate of Proper Installation	A+30	Engineering	4	1.02.C.1.d
-06	AP	NO	NO	Recommended Preparation & Installation Instructions	A+30	Engineering	4	1.02.C.1.e
-07	AP	NO	NO	Written Test Report for each Production and Core Sample	A+30	Engineering	4	1.02.C.2

01300A-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01300A  
MASTER SUBMITTAL REGISTER**

Contract Number and Name:						Revision:		
1	2	3	4	5	6	7	8	9
No.	Type, and Number of Copies	Technical Submittal	Vendor Information	Description / Document Title	Submittal Date	Approver	CPCCO Review Time	Contract Paragraph or Requirement Reference
	(pdf)				(Calendar Days)	Organizations	(Work Days)	
-08	AP	NO	NO	Statement of Qualification – Laboratory and Applicator	A+30	Engineering	4	1.02.C.3
<b>Section 03 10 00 - Concrete Forming and Accessories</b>								
-01	APW	NO	NO	Shop Drawings: a. Forming system product data b. Manufacturer’s data for form release agent	A+30	Engineering	4	1.03 B.1
<b>Section 03 21 00 - Reinforcing Steel</b>								
-01	APW	NO	NO	Shop Drawings: a. Bending lists b. Placing drawings	A+30	Engineering	4	1.02 B.1
-02	APW	NO	NO	Welded Mechanical Sleeve Splice, Mechanical threaded Conn	A+30	Engineering	4	1.02.B.2
-03	AP	NO	NO	Lab Test Reports	A+30	Engineering	4	1.02.C.1
-04	AP	NO	NO	Mechanical Threaded Connections	A+30	Engineering	4	1.02.C.2
-05	AP	NO	NO	Welding Qualification	A+30	Engineering	4	1.02.C.3
-06	AP	NO	NO	Field Test Results	A+30	Engineering	4	1.02.C.5
<b>Section 03 30 00 - Cast-in-Place Concrete</b>								
-01	APW	NO	NO	Shop Drawings: Placement Drawings	A+30	Engineering	4	1.03.B.1
-02	APW	NO	NO	Product Data	A+30	Engineering	4	1.03.B.1.a

01300A-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01300A  
MASTER SUBMITTAL REGISTER**

Contract Number and Name:						Revision:		
1	2	3	4	5	6	7	8	9
No.	Type, and Number of Copies	Technical Submittal	Vendor Information	Description / Document Title	Submittal Date	Approver	CPCCO Review Time	Contract Paragraph or Requirement Reference
	(pdf)				(Calendar Days)	Organizations	(Work Days)	
-03	APW	NO	NO	Design Data	A+30	Engineering	4	1.03.B.1.b
-04	APW	NO	NO	Gradation data	A+30	Engineering	4	1.03.B.1.c
-05	APW	NO	NO	Plan for Cold Weather Curing and Protection	A+30	Engineering	4	1.03.B.1.d
-06	APW	NO	NO	Plan for Hot Weather Curing and Protection	A+30	Engineering	4	1.03.B.1.e
-07	APW	NO	NO	Concrete Repair Methods	A+30	Engineering	4	1.03.B.1.f
-08	AP	NO	NO	Pre-installation Conference Minutes	SC+5	Engineering	4	1.03.C.1
-09	AP	NO	NO	Manufacturer's Instructions Bonding Agent/Bond Breaker	A+30	Engineering	4	1.03.C.2
-10	AP	NO	NO	Manufacturer's Certificates of Compliance	A+30	Engineering	4	1.03.C.3
-11	AP	NO	NO	Statements of Qualifications	A+30	Engineering	4	1.03.C.4
<b>Section 03 39 00 - Concrete Curing</b>								
-01	APW	NO	NO	Manufacturer's Product Data	A+30	Engineering	4	1.02 B.1
-02	APW	NO	NO	Curing Methods Proposed	A+30	Engineering	4	1.02 B.2
<b>Section 03 63 00 - Concrete Doweling</b>								
-01	APW	NO	NO	Product Data	A+30	Engineering	4	1.03.B.1
-02	AP	NO	NO	Manufacturer's Instructions	A+30	Engineering	4	1.03.C1

01300A-5

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01300A  
MASTER SUBMITTAL REGISTER**

Contract Number and Name:						Revision:		
1	2	3	4	5	6	7	8	9
No.	Type, and Number of Copies	Technical Submittal	Vendor Information	Description / Document Title	Submittal Date	Approver	CPCCO Review Time	Contract Paragraph or Requirement Reference
	(pdf)				(Calendar Days)	Organizations	(Work Days)	
-03	AP	NO	NO	ICC Evaluation Services Report	A+30	Engineering	4	1.03.C2
-04	AP	NO	NO	Special Inspection Report	A+30	Engineering	4	1.03.C3
-05	AP	NO	NO	Manufacturer's Certificate of Proper Installation, in accordance with Section 01 43 33 - Manufacturers' Field Services.	SC-45	Engineering	4	3.03.A

01300A-6

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

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

**PART 1 – GENERAL**

**1.1 SCHEDULES**

**1.1.1 Schedule Preparation**

1.1.1.1 Prepare schedules using commercial project planning software. Preferred software (used by Buyer) is Primavera Project Planner (P6). Other project planning software may be used if Contractor provides software translation capability to and from Primavera.

1.1.1.2 A sample P3 Activity Code Structure and Work Breakdown Structure (WBS) will be provided to the Contractor in order to assist in the preparation of the Construction Schedule, which will enable communication and downloading of the Contractor's schedule with Buyer IMES Schedule system.

1.1.1.3 Identify initial project schedule as Revision 0. This schedule, when approved, is the baseline project schedule.

1.1.2 See Section 01300 for submittal process.

**1.1.3 Approval Required**

1.1.3.1 Startup Project Schedule: 10 days after Notice of Award, submit a schedule covering activities for the first 60 days of Contract, starting with receipt of Notice to Proceed, as specified in 1.2.

1.1.3.2 Project Schedule: 30 days after Notice of Award, submit a schedule covering activities for duration of Contract.

1.1.3.3 Weekly Work Schedules: Provide a 2-week "look ahead" schedule, updated weekly, one day prior to each scheduled Weekly Progress Meeting (1.4.1).

1.1.3.4 Revised Schedules: When required, submit revised project schedules as specified in 1.3.

**1.1.4 Approval Not Required**

1.1.4.1 Progress Reports: On the first day of the month submit a revised project schedule, and every 2 weeks thereafter, submit a progress report as specified in 1.5.

01315-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**

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

**1.2 SCHEDULE PREPARATION**

- 1.2.1 The schedule submittal shall include a time-phased performance measurement baseline schedule (PMBS) for completing the individual construction Work.
- 1.2.2 The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the contract period of performance. Identify critical path activities, including logical sequence and relationship of activities for engineering, design, submittals, procurement, fabrication, delivery, erection, installation, and testing for work covered by Contract.
- 1.2.3 See submittal register for copy type to be submitted and approval code.

**1.3 SCHEDULE REVISIONS**

- 1.3.1 Whenever Buyer determines that there are significant variances between actual and scheduled progress, endangering completion of the Contract Work within the scheduled time, the Contractor may be required to prepare and submit revised project schedules including corrective action plan(s).
- 1.3.2 Make schedule revisions in accordance with the following:
  - 1.3.2.1 Show progress to date of submittal and projected completion dates for each activity.
  - 1.3.2.2 Identify activities modified since the previous submittal, major changes in scope, and other identifiable changes.
  - 1.3.2.3 Provide a narrative report defining the problem areas, anticipated delays, and schedule impacts.
  - 1.3.2.4 Describe corrective action taken, or proposed, and its effect, including changes in schedules of subcontractors.
- 1.3.3 Send copies of revised schedules to Buyer. Notify subcontractors, suppliers, and other concerned entities, instructing them to promptly report, in writing, problems anticipated due to revisions.
- 1.3.4 Upon approval, a revised schedule becomes the new baseline.

01315-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**

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

**1.4 WEEKLY WORK SCHEDULE PREPARATION**

1.4.1 Each week, prepare a detailed schedule of next 2-week's work. Base weekly work schedules on the activity schedule. Electronic generation of these schedules is not required. Include the following:

- a. Work Description
- b. Location of the Work.
- c. Work involving outages, overtime, weekends, etc.

**1.5 PROGRESS REPORT PREPARATION**

1.5.1 Prepare a summary progress report each reporting period, show actual progress versus scheduled progress. Scheduled progress is given by baseline project schedule. Show actual progress in the form of percentages completed for activities or resources.

1.5.2 A variance analysis shall be prepared on the current month and cumulative to date, and shall include cause, impact, and corrective action. Variance analysis shall include explanations, as required, to adequately address problems.

1.5.3 Develop and include a line graph ("S" curve) to show cumulative actual progress versus cumulative scheduled progress. Progress shown shall be consistent with that indicated by the reports.

1.5.4 *Report funds expended as both dollar amounts and percentages of budgeted totals for each activity shown on schedule, listing amounts for labor, equipment, and materials separately.*

1.5.5 Update project schedule each reporting period, or more frequently if requested by Buyer, when progress report is prepared. Include an updated data disk and a hard copy of updated schedule with the progress report.

1.5.6 Progress of scheduled activities will be used to determine monthly progress payments made to the Contractor. Requests for progress payments shall be directly related to progress shown in relation to the approved baseline project schedule.

**PART 2 – PRODUCTS**

Not Used

01315-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



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

**PART 3 – EXECUTION**

Not Used

END OF SECTION

01315-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**



**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.

1.1.1.1 American Society of Mechanical Engineers (ASME)

NQA-1: 2008 w/ 2009 addenda Quality Assurance Program Requirements for Nuclear Facility Applications. Include Requirements 1 through 18, subparts 2.7 and 2.14 as applicable for the scope of work being performed.

1.1.1.2 American Society for Quality (ASQ)

E4 Specifications and Guidelines for Quality Systems for Environmental Data Collection And Environmental Technology Programs

1.1.1.3 Code of Federal Regulations (CFR)

Title 10 Energy

Part 50 Domestic Licensing of Production and Utilization Facilities

Part 72 Licensing Requirements for the Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste

Part 830, Subpart A Quality Assurance Requirements

Title 29 Labor

Part 1910 Safety and Health Regulations for General Industry

Part 1926 Safety and Health Regulations for Construction

01400-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01400 QUALITY ASSURANCE AND CONTROL

- 1.1.1.4 Department of Energy (DOE)
  - Process Guide Identification and Disposition of Suspect/Counterfeit items or Defective items
  - DOE-0359 Hanford Site Electrical Safety Program (HSESP)
- 1.1.1.5 Factory Mutual (FM)
  - Approval Guide
- 1.1.1.6 Institute of Electrical and Electronics Engineers (IEEE)
  - C2 National Electrical Safety Code (NESC)
- 1.1.1.7 International Standards Organization (ISO)
  - ISO 9000:2000 Quality Management and Quality Assurance Standards
- 1.1.1.8 Intertek Testing Services NA, Inc. (ITSNA)
  - ETL, Section 1 Electrical Products/Gas/Oil Fueled Products
- 1.1.1.9 National Electrical Manufacturers Association (NEMA)
  - MG-1 Motors and Generators
- 1.1.1.10 National Fire Protection Association (NFPA)
  - NFPA 70-2020 National Electrical Code (NEC)
- 1.1.1.11 Underwriters Laboratories (UL)
  - Electrical Appliance and Utilization Equipment Directory
  - Electrical Construction Materials Directory
- 1.2 SUBMITTALS**
  - 1.2.1 See Section 01300 for submittal process.

01400-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**



## SECTION 01400 QUALITY ASSURANCE AND CONTROL

### 1.2.2 Approval Required

1.2.2.1 With proposal, submit a Quality Assurance Program (QAP) meeting the requirements of the Contract and this Section. Include subcontracted work and work performed off of the Hanford Site. If QAP is based on a consensus national standard or other quality management system, furnish a matrix showing the cross-references between the QAP and the standard or system.

### 1.2.3 Approval Not Required

1.2.3.1 At project completion, Provide a Certificate of Compliance warranting that all items supplied under Contract are genuine, new, and unused in accordance with 1.4.

## 1.3 QUALITY ASSURANCE PROGRAM REQUIREMENTS

1.3.1 The Quality Assurance Program (QAP) requirements imposed by this Specification are under the authority of the Price Anderson Amendments Act (PAAA) of 1989. Quality assurance provisions are developed from U.S. Department of Energy Nuclear Safety Management Regulation 10 CFR 830.120. QAPs developed from other national standards (e.g., ASME NQA-1, 10 CFR 50, 10 CFR 72, ISO 9000, ASQ E4) may be used as a basis for satisfying the criteria specified and should be supplemented and submitted as necessary to satisfy the requirements.

1.3.2 The QAP shall apply to all activities, including subcontracted activities and for work performed off the Hanford Site. The QAP shall include provisions for the following:

- 1.3.2.1 Management: Program, training/qualification, discrepancy identification, document/records.
- a. Quality documents shall describe the organizational structure, functional responsibilities, levels of authority and interfaces for those managing and performing the Work.
  - b. Personnel shall be trained and qualified to ensure they are capable of performing their assigned work. Plans shall address specific training, qualification, and certification requirements.
  - c. Items and processes that do not meet the requirements shall be identified, controlled, and corrected. Identify items or materials that do not meet specified requirements and control them to prevent inadvertent use, shipment, or intermingling with acceptable materials or items.

01400-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01400 QUALITY ASSURANCE AND CONTROL

- d. Documents shall be prepared, reviewed, approved, issued, revised and maintained. Approved and current issues of design documents, applicable submittals, procedures, procurement documents and instructions shall be used. Records shall be legible, identifiable, and retrievable.

### 1.3.2.2 Performance: Work Processes, Design, Procurement, Inspection, and Testing

- a. Items shall be identified and controlled to ensure proper use. Items shall be maintained to prevent their damage, lost or deterioration.
- b. Design work, including changes, shall incorporated applicable requirements and design bases and be correctly translated into design outputs.
  1. Design inputs and interfaces shall be identified and controlled.
  2. Changes to the approved design shall be justified and subjected to measures commensurate with the original design.
  3. For designs not previously proven, adequacy of design outputs shall be verified by individuals or groups other than those who performed the design. Minimum verification shall include a checking process.
- c. Purchased items and services shall meet established requirements and perform as specified. Procurement controls shall include actions to prevent the use of suspect or counterfeit products (1.4).
- d. Contractor shall be responsible for the performance of all inspection and testing activities as specified in the SOW. Inspection and testing of specified items and processes shall be conducted using established acceptance and performance criteria.
  1. Perform and document inspections and testing required by the Specification. Documented inspections shall report the true and physical/functional condition of the inspection activity. As a minimum prepare daily reports when inspections and testing are performed. Reports shall provide sufficient detail to describe inspections and testing performed, with applicable requirements referenced, and results and determinations of inspections and tests shown.
  2. Test procedures, when required, shall include the reference test objectives, prerequisites, and acceptance criteria. Test procedures shall also identify test configuration, safety instructions, instrumentation requirements,

01400-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## **SECTION 01400**

### **QUALITY ASSURANCE AND CONTROL**

required monitoring, and environmental conditions. Test procedures form standards, codes, supplier manuals and equipment maintenance instructions may be used in lieu of specially prepared test procedures.

3. Complete required inspections and tests and have documentation submitted for review, by Buyer.
4. Measuring and Test Equipment (M&TE) shall be properly calibrated maintained, accounted for and used when required. Calibration shall be traceable to National Institutes of Standards and Technology Calibration (NIST) Standards. Perform calibration at specified intervals based on the type of equipment, required accuracy, and frequency of use, stability characteristics, and other conditions affecting performance. Maintain records and mark equipment to show calibration status.
5. When M&TE is found to be out of calibration, specify means to identify its use since the last calibration and methods to re-verify acceptability of items previously tested.
6. Calibration shall have accuracy traceable to national standards (where they exist), and calibration standards shall have the accuracy to ensure that the M&TE has the required tolerances.

#### **1.4 EXCLUDING SUSPECT AND MISREPRESENTED PRODUCTS**

- 1.4.1 Contractor warrants that items provided to Buyer are genuine and unused unless otherwise specified in writing by Buyer. 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 Buyer, its agents, and third parties for any financial loss or property damage resulting directly or indirectly from material, 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.
- 1.4.2 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

01400-5

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**

## SECTION 01400 QUALITY ASSURANCE AND CONTROL

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.

- 1.4.3 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.
- 1.4.4 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 Process Guide for the Identification and Disposition of S/CI or defective items at the following link:  
<https://www.standards.doe.gov/standards-documents/1200/1221-bhdbk-2016/@@images/file>

### 1.5 INSPECTION AND TESTING

- 1.5.1 Inspection, testing, and documentation addressed in this Statement of Work shall be performed by qualified Quality Control personnel who are independent of the work being performed. Quality Control personnel shall have been trained and qualified in accordance with the approved QAP.
- 1.5.2 Inspection and testing shall be performed in accordance with this Statement of Work.
- 1.5.3 Buyer may perform oversight to verify compliance to requirements.
- 1.5.4 Verifications shall be performed for specific verification points as scheduled.
- 1.5.5 Prerequisites to verification points: Ensure that personnel have completed inspections of, and approved portions of, work in accordance with the Specification requirements before notifying Buyer.
- 1.5.6 Specific verification points are defined as follows:
- **QA Hold Point:** A type of signature step in a technical work document that satisfies established criteria for designation of Hold Points at which specific personnel are required to sign for the specified action. Hold Points consist of an action; acceptance criteria for Hold Point completion; and blocks for signature of performer, printed name of performer, and date. QA Hold Points are placed

01400-6

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## SECTION 01400 QUALITY ASSURANCE AND CONTROL

at those steps where omission or incorrect accomplishment of the step could result in a significant problem or hazard. The completion and documentation of a Hold Point must occur prior to proceeding to the next work step.

- **Verification Point:** A step in an inspection plan, procedure, or other work document that requires inspection personnel to review, inspect, test, check, or otherwise determine and document whether or not items, processes, services, or documents conform to specified requirements.
- **Witness Point:** A step in an inspection plan, procedure, or other work document that requires inspection personnel to observe an activity (e.g., examination or test).

**NOTE:** *"Verification" may be performed **after** the fact; "witness" is performed **during** the work process.*

### 1.6 DEFICIENCY REPORTING

- 1.6.1 Utilize a deficiency reporting system (e.g. nonconformance/deviation reports) to document deviations from requirements. Deficiency reports shall have a recommended disposition and shall be formally submitted to Buyer within 48 hours of discovery.
- 1.6.2 Dispositions of deficiency reports shall be documented in one of the four following categories: Use-as-is; Reject; Repair; or Rework. Definitions for these categories may be found in ASME NQA-1.
- 1.6.2.1 Use-as-is and repair deficiencies shall be submitted for concurrence and approval. Reject and rework deficiencies shall be submitted for information. After the recommended disposition has been evaluated by Buyer, the form will be returned to the Contractor with a disposition of "approved" or "rejected." The Contractor shall take corrective action on the nonconformance only after the form is approved. The Contractor's completed nonconformance form shall be shipped with the affected item.
- 1.6.2.2 Deficient items described by the report shall be physically tagged with a deficiency tag or segregated, when feasible.

01400-7

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01400**  
**QUALITY ASSURANCE AND CONTROL**

- 1.6.2.3 Deficiency tagging shall remain intact during correction of deficient conditions, unless tagging inhibits directed corrective action. If removal of tag is necessary to accomplish directed corrective action, removal shall be performed or delegated by the initializing organization.
- 1.6.2.4 Clearance of deficiency tags shall be performed or delegated by the initializing organization.
- 1.6.2.5 Official punch-list and final work acceptance.

**PART 2 – PRODUCTS**

Not Used

**PART 3 – EXECUTION**

Not Used

END OF SECTION

01400-8

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**



**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.

1.1.1.1 Code of Federal Regulations (CFR)

49 CFR Part 40	Procedures for Transportation Workplace Drug and Alcohol Testing Programs
49 CFR Part 382	Controlled Substances and Alcohol Use and Testing
49 CFR Part 383	Commercial Driver’s License Standards; Requirements and Penalties
49 CFR Part 385	Safety Fitness Procedures
49 CFR Part 387	Minimum Levels of Financial Responsibility for Motor Carriers
49 CFR Part 390	Federal Motor Carrier Safety Regulations; General
49 CFR Part 391	Qualifications of Drivers and Longer Combination Vehicles (LCV) Drivers Instructions
49 CFR Part 392	Driving of Commercial Motor Vehicles
49 CFR Part 393	Parts and Accessories Necessary for Safe Operation
49 CFR Part 395	Hours of Service of Drivers
49 CFR Part 396	Inspection, Repair, and Maintenance
49 CFR Part 397	Transportation of Hazardous Materials; Driving and Parking Rules

1.1.1.2 National Fire Protection Association (NFPA)

701 Methods of Fire Tests for Flame-Resistant Textiles and Films

01500-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**

**SECTION 01500**  
**CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS**

1.1.1.3 Washington State Department of Transportation (WSDOT)

M 41-10 Road, Bridge, and Municipal Construction

**1.2 ACCESS AND PARKING**

1.2.1 Buyer 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.

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 Buyer during the preconstruction conference.

**1.3 FIELD OFFICE**

1.3.1 A Field Office is not required for this project.

**1.4 TEMPORARY UTILITIES**

1.4.1 Electric Power: Limited Power may be available from facility 120VAC receptacles. Contractor shall provide generators as needed for construction power.

1.4.2 Sanitary Facilities: Not available. Provide and service chemical or other approved sanitary toilets for employee use. Buyer requirements are available on request.

1.4.3 Telephone: Utilities for telephone service are not available. Contractor shall provide cellular phone for emergencies and communication with Buyer.

1.4.4 Water: Drinking water is not available. Provide employees with adequate drinking water that meets health and safety requirements.

**1.5 TEMPORARY CONTROLS**

1.5.1 Dust Control: Maintain work areas to prevent hazard or nuisance to others. Accomplish dust control by sprinkling or other methods approved by Buyer. 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

01500-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01500**  
**CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS**

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.

- 1.5.2 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
- 1.5.3 Vehicle and equipment movement
- a. Slow moving vehicles and equipment shall 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).
- 1.5.4 Traffic Control: Temporary traffic control and barricades shall be in accordance with WSDOT M 41-10, Section 1-07.23(3).
- 1.5.5 Oversized vehicles and loads:
- a. Obtain a Hanford Site Oversize/Overweight Permit from Buyer 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: Buyer will provide qualified electrical escorts when loads reach a height of 14 feet 6 inches 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 Buyer at least three (3) working days before need. Contractor will not be charged for electrical escorts.

01500-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**



**SECTION 01500**  
**CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS**

1.5.6 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 Buyer.
- 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).

PART 2 – **PRODUCTS**

Not Used

PART 3 – **EXECUTION**

Not Used

END OF SECTION

01500-4

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**05/11/2022**



## SECTION 01610 MATERIAL AND EQUIPMENT DELIVERY, STORAGE, AND HANDLING

### PART 1 – SUMMARY

#### 1.1 SUMMARY

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 identified in Contractor QAP.

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

#### 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.

01610-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

**SECTION 01610**  
**MATERIAL AND EQUIPMENT**  
**DELIVERY, STORAGE, AND HANDLING**

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.

**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.

1.6.2 When required by this Specification, 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.

01610-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022



**SECTION 01610**  
**MATERIAL AND EQUIPMENT**  
**DELIVERY, STORAGE, AND HANDLING**

- 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.
- 1.7.4 Arrange stacked products so that condensation drains.

**1.8 HANDLING**

- 1.8.1 Provide handling tools and equipment, and use methods designed to prevent occurrence of following.
  - a. Impact, rubbing, and other contact damage to ends and surfaces of pipe, tube, and other cylindrical products, and to edges, corners, and surfaces of panel, sheet and other flat products.
  - b. Twisting, racking, and other distortion of prefabricated structures and equipment assemblies.
  - c. Tearing, puncturing, and breaking of wrappings, coverings, and seals on packages and cartons.
  - d. Surface contamination of stainless-steel products.

**PART 2 – PRODUCTS**

Not Used

**PART 3 – EXECUTION**

Not Used

END OF SECTION

01610-3

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

05/11/2022

## 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.
  - 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.

01630-1

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**SECTION 01630**  
**PRODUCT OPTIONS AND SUBSTITUTIONS**

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 numbers.

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.

**PART 2 – PRODUCTS**

Not Used

**PART 3 – EXECUTION**

Not Used

END OF SECTION

01630-2

*At CPCCo, Safety is no accident*

Installation of the Reinforced Equipment Pads for the New Packed Tower Air Stripper at 200W P&T

**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. Buyer will assemble pertinent data for final disposition.
- 1.1.2 Some data required for project records shall be delivered to Buyer during the course of construction and contract administration, while other data shall be assembled after completion of construction for delivery to BUYER.
- 1.1.3 Certain information for project records shall be recorded on Buyer-provided forms. These forms are identified in Specifications sections where required. Copies will be supplied during the Preconstruction Conference (see Section 01200) and are also available on the Buyer web site at the following link:  
<https://cpcco.hanford.gov/page.cfm/CPCCoSafetyReferenceDocuments>.
- 1.1.4 Project Record Documents, required by Contract, shall be prepared, preserved and delivered to Buyer. 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.
  - 1.2.1.1 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.
  - 1.2.1.2 Mark items to record actual construction, including changes to dimensions and details, manufacturer's name, catalog number and substitute products.
- 1.2.2 Availability: Keep copies of Project Record Documents at the Project site, and make available to Buyer during the progress of the Work.
- 1.2.3 Storage: Store one (1) set at the Project site, apart from documents used in construction and maintain in a clean dry and legible condition.
- 1.2.4 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 Buyer, may be used.

**1.3 ACTIVITY AND ADMINISTRATIVE DOCUMENTS**

- 1.3.1 Deliver or retain in accordance with the following:



## SECTION 01720 PROJECT RECORD DOCUMENTS

- 1.3.1.1 Certified Payrolls: Deliver certified payrolls as required by the Contract Provisions to Buyer. Progress payments will not be processed unless certified payrolls for work periods have been received by Buyer. The process of reporting certified payrolls has been streamlined using an integrated electronic Certified Payroll submittal system, LCPtracker. LCPtracker eliminates the need for manual submittals and is capable of supporting integration from multiple payroll systems. All Certified Payrolls, including lower tier subcontractors, shall be submitted by entry into LCPtracker. Information can be found on LCPtracker's website: [LCPtracker.com](http://LCPtracker.com)
- 1.3.1.2 The Contractor shall complete Construction Daily Activities Field Reports (A-6004-822, Rev 3) and Lost Time/Work Delay Notification (A-6006-539 Rev.1) if applicable. The Contractor shall provide Buyer 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 Activities Field Reports shall be submitted by Work Package to Buyer by 10:00 a.m. each workday documenting the previous work day's activities. DAR's will be filled out until the project is completed or terminated. A DAR shall be submitted on days (normal workdays) where no work has been done.
- 1.3.1.3 Weekly Manpower Reports: Prepare weekly manpower reports and deliver to Buyer before 10 a.m. on Monday, for the previous week, during the performance of the Contract.
- 1.3.1.4 Subcontracting Plan Reports: Deliver reports to Buyer documenting conformance with the approved Subcontracting Plan, as required by SP-11.
- 1.3.1.5 Pre-Job Briefing Checklist: Prepare checklist during each pre-job briefing and post-job review. Deliver checklists to Buyer within 5 days after briefing.
- 1.3.1.6 Pour Slips: After obtaining Buyer approval of Concrete Pour Slips, deliver copies to Buyer and retain Contractor copies until Contract closeout. After closeout, deliver to Buyer.
- 1.3.1.7 Trip Tickets: Deliver copies to Buyer with each truck load of concrete and retain Contractor copies until Contract closeout. After closeout, deliver to Buyer.

### **1.4 CONSTRUCTION, QUALITY ASSURANCE AND SUPPORTING DOCUMENTS**

- 1.4.1 Deliver in accordance with the following, when called for in the Specification Sections:
- 1.4.1.1 Significant Discharge Log: Log water discharged each work day and deliver discharge log (A-6002-294) to Buyer.



**SECTION 01720  
PROJECT RECORD DOCUMENTS**

1.4.1.2 Calibration Records: Deliver to Buyer one copy of instrument calibration records five days after Contract completion.

**1.5 PRODUCT SAMPLES AND MANUFACTURER'S INSTRUCTIONS**

1.5.1 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 Buyer as Project Records.

**PART 2 – PRODUCTS**

Not Used

**PART 3 – EXECUTION**

Not Used

END OF SECTION