



**STATEMENT OF WORK  
FOR  
CONSTRUCTION**

**Requisition #353907:**

**Title: ERDF Steel Liner Waste Containers**

**Revision Number: 0**

**Date: August 3, 2021**



## 1.0 INTRODUCTION / BACKGROUND

This contract is issued for the performance of off-Site Fabrication Services in support of Central Plateau Cleanup Company (CPCCo) work scope for the period October 1, 2021 through September 30, 2022 with option years to continue from October 1, 2022 through September 30, 2023 and October 1, 2023 to September 30, 2024. CPCCo is a prime contractor to the U.S. Department of Energy (DOE) and all work on this Statement of Work will be performed in support of the CPCCo contract with DOE.

## 2.0 DESCRIPTION OF WORK - GENERAL

CPCCo (Buyer) requires a Contractor to fabricate steel liners for use in waste containers at the Environmental Restoration Disposal Facility (ERDF) in accordance with the requirements of this SOW. Work is in the 600 Area of the Hanford Site and is located approximately 20 road miles *northwest* of Richland, Washington.

## 3.0 DESCRIPTION OF WORK - SPECIFIC

Contractor shall provide and manage the labor, equipment, material, and services required to complete the tasks and deliverables identified herein. The work shall be performed at the Contractor's facilities.

The Contractor is responsible for execution of the work in accordance with the quality standards and requirements specified herein.

Contractor shall provide the work products and services to be provided required to fabricate and deliver steel liners in accordance with the design and requirements specified in this SOW.

Base Contract: One (1) steel liner in accordance with the Statement of work.

Contractor shall provide one (1) steel liner, with the option to provide a minimum of an additional twenty nine (29) up to a maximum of an additional ninety nine (99) steel liners – i.e. one hundred (100) total steel liners.

Optional Work: Lot of Twenty Nine (29) Steel Liners; maximum of seventy additional steel liners in varying lots sizes.

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#### 4.0 COMMUNICATIONS

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.

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

- *CPCCo Contract Specialist*
- *BTR*

#### 5.0 SECURITY, BADGES, AND DOSIMETERS

Buyer will arrange for issuance of security badges and dosimeters required for delivery of the steel liners subject to the requirements identified in the Contract document under Part IV, Special Provisions – On-Site Services SP-5.

#### 6.0 WORK HOURS

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.

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

#### 7.0 WORK MANAGEMENT REQUIREMENTS

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

END OF SECTION

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## PART 1 – GENERAL – OCCUPATIONAL SAFETY/INDUSTRIAL HYGIENE

### 1.1 SAFETY

The Contractor shall comply with their facility specific safety requirements in the execution of this work.

### 1.2 HAZARD IDENTIFICATION

The site conditions and/or known hazards include potentially dusty/hot/cold/windy weather conditions. Deliveries will be made using approved roadways on Hanford site to TMF.

END OF SECTION

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## PART 2 – GENERAL – ENVIRONMENTAL, RADIOLOGICAL, AND NUCLEAR SAFETY

### 2.1 SUBMITTALS

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

The Contractor shall flow down ESH&Q requirements to the lowest tier subcontractor performing Work, commensurate with the risk and complexity of the work. A copy of all flow down documentation shall be submitted to CPCCo.

END OF SECTION

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## PART 3 – GENERAL – PROJECT MEETINGS

### 3.1 SUMMARY

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.

### 3.2 PROGRESS MEETINGS

Contractor shall participate in the following meetings:

**Project Kickoff meeting:** Buyer may request a meeting after contract award to review contract requirements and processes, establish protocols for communications and interfaces, introduce key personnel and their roles and responsibilities, and review the project schedule. The agenda for the meeting will be provided by the Buyer.

**Progress meetings:** Buyer may request a meeting with the Contractor to occur at a day/time acceptable to both the Buyer and the Contractor. The Contractor shall provide a project schedule one day prior to each scheduled meeting.

Any other meetings requested by the Buyer during the course of work as necessary. The person or persons designated by the Contractor to attend all meetings shall have all required authority to make decisions and commit Contractor to technical decisions made during meetings.

END OF SECTION

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**PART 4 – GENERAL - SUBMITTALS**

**4.1 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.

**4.2 SUBMITTALS**

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

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

Contract Number and Name:							Revision:		
1. No.	2. Type, and Number of Copies	3. Technical Submittal	4. Vendor Information	5. Description / Document Title	6. Submittal Date (Calendar Days)	7. Approver Organizations	8. CPCCo Review Time (Work Days)	9. Contract Paragraph or Requirement Reference	
1	AP/PDF	No	No	Fabrication Schedule	Award + 3 Days	BTR	3 Days	SOW 8.2	
2	APW/PDF	Yes	Yes	Welders' Qualifications	5 days PF	QA / Engineering	3 Days	SOW 6.3.3	
3	APW/PDF	Yes	Yes	Non-Destructive Examination Certification	5 days PF	QA / Engineering	3 Days	SOW 6.3.2	
4	APW/PDF	Yes	Yes	Welding Procedures and Qualification Records	5 days PF	QA / Engineering	3 Days	SOW 6.3.3	
5	APW/PDF	Yes	Yes	NDE Weld Inspection Report	At Delivery	QA	3 Days	SOW 6.3.2, 6.3.4	

- Submittal type, number of copies and format:

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**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).

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

**DWG** An AutoCAD drawing using the Hanford standard formatting (See PRC-PRO-EN-440, *Engineering Documentation and Control*).

**MFC** Microsoft Format Compatible application (Word, Excel, Access, PowerPoint)

**P3** A Primavera Project Planner schedule

**GEN** General or Open Format/Media

**PDF** Adobe Acrobat (Portable Document Format)

3. Technical submittals are Engineering or Quality affecting submittals. A Yes in this column designates the need for formalized comments, and a formalized comment disposition process by the Contractor. Examples of Technical Submittals would include Engineering or Fabrication Drawings, or Certificates of Conformance.
4. Vendor Information for project record purposes.
5. Description / Document Title. Describe submittal.
6. Required submittal date or its relationship to project milestones. Examples are July 14, 2009, or Award + 15 days, Contract Completion +30 days.

<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>M</b>	Mobilization
<b>SC</b>	Start of Construction
<b>EC</b>	End of Construction

7. Approver Organization. Examples are Construction Manager, Safety, Quality, Radiation Protection, Waste Management.
8. The number of Work Days required for review of the submittal.
9. Contract Reference: Cross reference to the Contract requirement that defines this submittal:

The Contractor submittals identified herein on the Submittal Register shall be submitted by the Contractor using the Contractor Document Submittal Form (CDSF) A-6004-757 (available at <http://chprc.hanford.gov/page.cfm/SubmittalsFormsDocs>). Instructions for completion of the CDSF are included with the form.

If the Contractor is using submittals previously approved by the Buyer, the Contractor may declare no changes have taken place since last submittal and ask for approval based on previous referenced submittal.

CPCCo's Document Management and Control System (DMCS) will be used to electronically manage document submittals and RCIs for this contract. The address to transmit submittals and RCIs to is [STPACDC@rl.gov](mailto:STPACDC@rl.gov).





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**PART 5 – GENERAL – PROJECT SCHEDULES, PROJECT CONTROLS, AND PROJECT PERFORMANCE MILESTONES**

**5.1 SCHEDULES**

Contractor will perform all work in strict accordance with requirements, design criteria, national, state and local codes and standards, specifications, drawings, exhibits, and any other documents, which by reference are made a part of this SOW.

CPCCo reserves the right to perform source inspections before and during fabrication. Inspections will be arranged jointly by CPCCo and the Contractor.

**5.2 CODES AND STANDARDS**

The latest version of the codes, standards, and requirements listed below are hereby incorporated into and made a part of this Contract to the extent indicated in this SOW and attachments.

Document No.	Title
AWS D1.1	Structural Welding Code – Steel
AWS QC-1	Certification of Welding Inspectors

**5.3 SPECIFICATIONS**

The latest version of the specifications listed below, are hereby incorporated into and made a part of this Contract to the extent indicated in this SOW and attachments.

Specification No.	Title
ASTM A1011 / A1011M	Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength
ASTM A36	Standard Specification for Carbon Structural Steel
ASTM A500	Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural tubing In Rounds and Shapes
ASTM A53	Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
ASTM A563	Standard Specification for Carbon and Alloy Steel Nuts
ASTM A615	Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement

**5.4 DRAWINGS**

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The latest version of the drawing listed below, are hereby incorporated into and made a part of this Contract to the extent indicated in this SOW and attachments.

Drawing No.	Title
CEES-12-351-M-017	RO/RO LINER BOX
ECR-19-001330 Rev 00	RO-RO Liner Box - Update Sketch

**5.5 EXHIBITS**

The Forms shown in the following table are hereby incorporated into and made a part of this Contract.

Specification No.	Title
A- Form A-6004-757	Contractor Document Submittal
B- Form A-6004-833	Request for Clarification/Information (RCI)

**5.6 DESIGN CHANGES**

Any proposed changes (materials, dimensions, finish, fit, function, etc.) to Buyer or Contractor design media need to be approved by the Buyer. The Contractor shall submit a copy of their redline process to the Buyer for approval. If the Contractor’s redline process has previously been approved by the Buyer, the Contractor may submit a statement declaring that it has been previously approved and that it has not changed. Any redline changes shall be approved and initialed by a Buyer’s Design Authority (designee) prior to execution of the change.

END OF SECTION

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**PART 6 – GENERAL – QUALITY ASSURANCE AND CONTROL**

**6.1 SUBMITTALS**

See Section 4.2 for submittal process.

**Approval Required**

With proposal, submit a Quality Assurance Program (QAP) meeting the requirements of the Contract and this Section. 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.

The Contractor shall perform quality work in compliance with the requirements of this contract. The Contractor is responsible to pass down to any sub-tier contractor the applicable requirements of this contract. A copy of all flow down documentation shall be submitted to CPCCo. The Contractor must allow access to their facility, work site, or sub-contractor’s facility or work site at any time during this contract for CPCCo personnel to perform inspections or surveillances.

**6.2 QUALITY ASSURANCE PROCUREMENT REQUIREMENTS**

The Contractor shall comply with the Hanford Site Procurement Quality Clauses listed in Table 6.3.

**Table 6.3 Procurement Quality Clause List**

<b>Procedure Section</b>	<b>Description</b>
6.3.1	Source Inspection
6.3.2	Non-Destructive Examination Personnel
6.3.3	Welding Procedures and Qualifications
6.3.4	Inspection and Test Report
6.3.5	Nondestructive Examination Process
6.3.6	Non-conformance Documentation and Reporting
6.3.7	Procurement of Potentially Suspect or Counterfeit Items
6.3.8	Certificate of Conformance

**6.3 INSPECTION AND TESTING**

**Source Inspection**

All items are subject to inspection at the Contractor’s facility or Contractor’s subcontractor's facility by a Buyer's quality assurance/quality control representative. Contractor shall notify Buyer at least 5 working days in advance of the time items will reach any inspection hold point established by the Buyer in the procurement package.

**Non-Destructive Examination Personnel**

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Contractor personnel performing Non-Destructive Examinations (NDEs) shall be certified as a Non-Destructive Examiner in accordance with the requirements specified in AWS QC-1.

The following documentation shall be submitted to the Buyer prior to the start of fabrication:

1. Current AWS NDE certificates
2. Current and valid visual acuity examination. The examination must be performed annually.
3. Visual weld inspection procedures.

Approval shall be obtained from the Buyer prior to start of fabrication.

### **Welding Procedures and Qualifications**

Welding procedures and personnel shall be qualified in accordance with the applicable AWS or ASME specifications as specified in the Purchase Order/Contract order. The Contractor shall submit copies of all welding procedures, Procedure Qualification Records, and Welder Qualification Records to be employed in the performance of this Purchase Order/Contract Order. Buyer approval is required prior to the start of fabrication.

Changes and revisions to welding documentation shall be submitted to the Buyer for review and approval prior to use. When subcontracting any portion of this Purchase Order/Contract Order, the Contractor is required to invoke the applicable quality assurance program requirements on the subcontractor.

### **Inspection and Test Report**

The Contractor shall submit legible, reproducible copies of Inspection/Test Reports.

The report(s) shall include the following:

1. Identification of the applicable inspection and/or test procedure utilized.
2. Resulting data for all characteristics evaluated, as required by the governing inspection/test procedure.
3. Traceability to the item inspected/tested, (i.e., serial number, part number, lot number, etc.).
4. Signature of the Non-Destructive Examination Personnel

One copy of the documentation, unless otherwise specified, shall accompany the applicable item(s) shipped.

### **Nondestructive Examination Process**

Nondestructive examination (NDE) personnel shall be qualified and certified in accordance with the Employer's written practice that meets the recommended guidelines of the American Society of Nondestructive Testing's (ASNT) ASNT SNT-TC-1A, unless otherwise specified in the ordering data.

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The Contractor is not authorized to begin fabrication until the following documentation has been reviewed and approved by the Buyer:

- NDE qualification and certification procedures (Employer's written practice)
- Personnel Level I, II, and III qualifications and certifications which include objective evidence of NDE training, formal education, examinations, experience, date of hire, and current eye examination record
- NDE method/examination procedures that are in accordance with the applicable codes/standards specified in procurement documents.

All NDE reports and radiographs shall be traceable to the item examined, include all essential examination parameters, and signed and dated by the NDE examiner. All NDE reports and radiographs shall accompany or precede shipment of material. Radiographs and radiographic technique and examination reports shall be subject to approval by the Buyer prior to shipment of completed items.

When subcontracting any portion of this Purchase Order/Contract Order, the Contractor is required to invoke the applicable quality assurance program requirements on the subcontractor.

### **Non-conformance Documentation and Reporting**

Non-conformances shall be documented by the Contractor on the Contractor's nonconformance form. After documenting the non-conformance, disposition and technical justification, the form shall be forwarded to the Buyer upon request from the Buyer.

### **6.4 COMMERCIAL GRADE ITEM PROCUREMENT**

Contractor shall purchase and dedicate commercial grade items in accordance with approved QAP.

Notwithstanding any other provisions of this agreement, the Contractor warrants that all items provided to the Contractor shall be genuine, new and unused unless otherwise specified in writing by the Contractor. Contractor further warrants that all items used by the Contractor during the performance of work for the Hanford Site, include all genuine, original, and new components, or are otherwise suitable for the intended purpose. Furthermore, the Contractor shall indemnify the Buyer, its agents, and third parties for any financial loss, injury, or property damage resulting directly or indirectly from material, components, or parts that are not genuine, original, and unused, or not otherwise suitable for the intended purpose. This includes, but is not limited to, 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..

Types of material, parts, and components known to have been misrepresented include (but are not limited to) fasteners; hoisting, shackles, turnbuckles, cable clamps, wire rope, rigging, and lifting equipment; cranes; hoists; valves; pipe and fittings; electrical equipment and devices;

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plate, bar, shapes, channel members, and other heat treated materials and structural items; welding rod and electrodes; and computer memory modules. The Contractor's warranty also extends to labels and/or trademarks or logos affixed, or designed to be affixed, to items supplied or delivered to the Contractor. In addition, because falsification of information or documentation may constitute criminal conduct, the Contractor may reject and retain such information or items, at no cost, and identify, segregate, and report such information or activities to Department of Energy officials.

Contractor shall provide a written statement that "all items furnished under this Purchase Order/Contract Order are genuine (i.e., not counterfeit) and match the quality, test reports, markings and/or fitness for use required by the Purchase Order/Contract Order. The statement shall be on Contractor's letterhead and signed by an authorized agent of the Contractor.

Any materials furnished as part of this Purchase Order/Contract Order which have been previously found to be suspect/counterfeit by the Department of Energy shall not be accepted.

For further information on suspect/counterfeit items, reference the Department of Energy (DOE) Guidance at <http://www.hss.doe.gov/sesa/corporatesafety/sci/index.html>.

### **Certificate of Conformance**

The Contractor shall provide a legible/reproducible Certification of Conformance (COC). Contractor's authorized representative responsible for quality shall sign the COC.

This COC shall, as a minimum:

- Identify the appropriate Purchase Order/Contract Order number under which the material, equipment, item or service is being supplied.
- Each order/shipment shall include a COC unique to that shipment.
- The quantity of each line item shipped shall be identified on the COC.
- The COC shall identify the specific procurement requirements to be met by the purchased item or service. The procurement requirements identified shall include any approved changes, waivers, or deviations applicable to the item or service.
- The COC shall be signed or otherwise authenticated by a Contractor's representative.

One copy of the documentation, unless otherwise specified, shall accompany the applicable item shipped. For subsequent shipments on this Purchase Order/Contract order, reference may be made to documentation provided with earlier shipments, instead of duplicating such documentation

END OF SECTION

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