

Revision 1
March, 2020
Prepared by: Harold Mashaw

STATEMENT OF WORK
FOR
4 INCH SHIELDED WASTE BOX
FOR THE 324 BUILDING DISPOSITION PROJECT

Contract #

Revision History

Rev	Date	Reason for Revision
0	March 2020	Initial Release
	March 2020	Revise Coating System preference in Section 3.1

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1.0 INTRODUCTION / BACKGROUND

This Statement of Work (SOW) is issued for the performance of off-site Fabrication Services in support of the CH2M Hill Plateau Remediation Company (CHPRC) 300-296 Waste Site Remediation Project. CHPRC is a prime contractor to the Department of Energy (DOE) and all work under this Statement of Work will be performed in support of the CHPRC contract with DOE.

2.0 DESCRIPTION OF WORK – GENERAL

CHPRC (hereafter referred to as the Buyer) requires a Contractor to design, procure materials, fabricate, assemble, inspect, test, and deliver equipment and components in accordance with the requirements of this SOW.

The 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 facility. If onsite access is required, site visitation shall be coordinated through the Contract Specialist.

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

This Contract is for the fabrication of a waste box (that will be shipped in a Macroencapsulation IP-1 shipping container which is not part of this contract) to ship radioactive waste for transport to the Environmental Restoration Disposal Facility (ERDF) for contaminated equipment/debris from the 324 Facility

All equipment to be fabricated in this SOW is Quality Level 3 and General Service.

3.0 DESCRIPTION OF WORK – SPECIFIC

The Contractor shall provide and manage labor, equipment, material and services required to complete all work outlined in this SOW. All equipment must be fabricated and assembled in accordance with the drawings referenced in Attachment 2 of this SOW. The Contractor shall prepare design documents, drawings, fabrication travelers and test procedures for each of the following components prior to the start of physical work and submit to the Buyer for review and approval. The Contractor is responsible for all packaging and delivery cost with delivery of equipment to 300 Area, building 324. This section identifies the major work elements only; the Contractor is responsible to determine the complete scope from the referenced Drawings and this SOW.

The Contractor shall provide the following equipment and quantities as shown:

	<u>Task</u>	<u>Quantity</u>
Task – 1	Complete design of the 4 Inch Shielded Waste Box per H-3-318600	1
Task – 2	Fabricate 4 Inch Shielded Waste Box per H-3-318600	3

Task – 3 Optional Quantities 4 Inch Shielded Waste Box per H-3-318600 AR

3.1 TASK 1 COMPLETE DESIGN OF THE 4 INCH SHIELDED WASTE BOX

The Contractor shall complete the design of the 4 Inch Shielded Waste Box and submit to the Buyer for review and approval per drawing H-3-318600. The Contractor shall provide a method to ensure that the Waste Box Lid with payload will remain seated with the box inverted. The lid restraint(s) provided shall not be compromised by a fire incident and shall not interfere with the forklift engagement of the forklift pockets or restrict the lid vent ports. The Contractor shall provide analysis that evaluates the container internal wall loading of the payload weight, based on a 0.8g in the horizontal direction and a 0.2g in the vertical direction (See Note 4, Drawing H-3-318600 for estimated weights). The design shall have a safety factor of 3 to 1 to yield for container wall loading due to the payload reactions and shall consider ALARA for installation of restraints.

Drawing H-3-318600, General Note 11 provides two different exterior coating systems. The Buyer requests the coating system to be utilized will be the Epoxy coating system detailed in Note 11.

3.1.1 Task-1 Summary of Work

- Final design of structural details for the lid and body.

3.2 TASK-2 FABRICATE 4 INCH SHIELDED WASTE BOX

The Contractor shall procure materials, fabricate, and inspect three (3), 4 Inch Shielded Waste Box Assemblies as shown on Drawing H-3-318600, Sheets 1 and 2 with the addition of the Buyer approved design from Task-1. The Contractor shall submit fabrication traveler(s) for review and approval.

3.2.1 Task-2 Summary of Inspection and Testing Requirements

- Final visual inspection of all welding by Certified Weld Inspector (CWI) per AWS D1.1.
- Verification of Dimensions, Coating, Labeling and Weight

3.3 TASK-3 OPTIONAL QUANTITIES OF 4 INCH SHIELDED WASTE BOXES

The Contractor shall provide costs to procure materials, fabricate, and inspect additional quantities of one (1) and for five (5) 4 Inch Shield Waste Boxes as shown on Drawing H-3-318600, Sheets 1 and 2 and approved Task 1 design. The Buyer reserves the right to procure additional Waste Boxes based on the cost and schedule provided by the Contractor. This cost shall be all inclusive of G/A, Overhead and profit. The Contractor shall submit fabrication traveler(s) for review and approval if this option is exercised.

3.3.1 Task-3 Summary of Inspection and Testing Requirements

- Final visual inspection of all welding by Certified Weld Inspector (CWI) per AWS D1.1.
- Verification of Dimensions, Coating, Labeling and Weight

3.4 BUYER FURNISHED MATERIALS AND EQUIPMENT

3.4.1 None

3.5 SPECIAL REQUIREMENTS

3.5.1 Fabrication General Requirements

- 3.5.1.1 The Fabricator shall prepare and submit fabrication travelers, inspection plans and test plans for the equipment listed in this SOW for Buyer review, approval, and insertion of Buyer-designated source inspection/witness points prior to starting fabrication, inspection, or testing on the subject component. Fabrication travelers and inspection/test plans may be submitted as a single or as separate documents.
- 3.5.1.2 The Fabricator shall submit Weld Procedures Specifications (WPS) for approval prior to the first production weld on equipment covered by this SOW.
- 3.5.1.3 The Fabricator shall submit weld Procedure Qualification Records (PQRs) for approval prior to the first production weld on equipment covered by this SOW.
- 3.5.1.4 The Fabricator shall submit Welder Performance Qualification Records (WPQRs) for approval for all personnel that will be welding on equipment covered by this SOW.
- 3.5.1.5 The Fabricator shall submit Weld Inspector Qualifications prior to weld inspection on equipment covered by this SOW.
- 3.5.1.6 All welding of carbon structural steel shall be in accordance with AWS D1.1. A Certified Weld Inspector (CWI) will visually examine final pass on all welds. Qualifications to ASME Boiler and Pressure Vessel Code, Section IX is acceptable.
- 3.5.1.7 Arc Strikes, defects and temporary attachments shall be removed. Remove arc strikes, defects or temporary attachments by a combination of grinding and welding to match the original surface condition of the material. Perform visual examination methods to determine complete removal of defect.
- 3.5.1.8 Unless noted on the fabrication drawing, all weld joint details (root opening, bevel angles and tolerances) shall be per the Fabricator's approved qualified weld procedure specification (WPS).
- 3.5.1.9 After fabrication, measure and record the actual weight of each piece of equipment/weldment. This weight will be recorded on the equipment label as shown on drawings.
- 3.5.1.10 Deviations/changes to technical requirements on the Buyer's drawings must be authorized in accordance with the design change process delineated in this SOW.
- 3.5.1.11 Labeling shall be per respective drawing, Note 11. Letters shall be either black on a white background or white on black background.

3.5.2 Equipment Cleanliness

Cleanliness criteria for the shielding shall conform to the following:

- Clean all external surfaces. Remove loose dirt, grease, scale and debris.
- No visual evidence of entrapped water.
- Perform and document a final inspection of each item listed in this SOW.
- Ensure all markings and identifications are present per the requirements of the drawings and this specification.

3.5.3 Packaging and Shipping Plan

The Contractor shall submit for review and approval a “Packaging and Shipping Plan” for each equipment component described in this SOW. The plan shall include packaging, shipping, and an extended storage plan.

3.5.4 Packaging

- Packaging and shipping shall be in accordance with approved plan.
- Items shall have packing lists included with external labels with the necessary information for receipt inspection.
- Assemblies shall be packaged with lids installed and all openings sealed to prevent water ingress during storage.

3.5.5 Shipping

- Equipment shall be secured for shipping utilizing web tie-downs of sufficient strength and quantity to prevent the load from shifting in transit.
- Shipping tie-downs shall not use the lid assemblies lift bails as a tie off point.

3.5.6 Acceptance Criteria

Acceptance Criteria is identified in this SOW or on the drawings. The Contractor shall demonstrate to the Buyer that the Acceptance Criteria has been satisfied prior to shipment.

3.5.7 Organizational Interfaces

The contractual interface for this work is the CHPRC Contract Specialist, Carl Shaw (376-5504, or designee). The CHPRC Buyer Technical Representative (BTR), Harold Mashaw (509) 531-7059 or designee) shall act as the technical point of contact.

3.5.8 Work Not Included

- Installation of the components in the 324 facility.

3.5.9 Site Coordination Requirements

- If onsite access is required, site visitation shall be coordinated through the Contract Specialist.

4.0 TECHNICAL REQUIREMENTS

Contractor shall 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 the Statement of Work.

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

4.1 CODES AND STANDARDS

The codes, standards, and requirements listed in the drawing are incorporated into and made a part of this Contract to the extent indicated in this Statement of Work and attachments. Additionally, the codes and standards stated have embedded and referenced codes that also becomes part of this code of record.

4.2 DRAWINGS

See Attachment 2 for current list of drawings.

4.3 EXHIBITS

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

Form No.	Title
A-6004-757	Contractor Document Submittal
A-6004-833	Request for Clarification/Information (RCI)
A-6007-382	CHPRC Change Form

4.4 DESIGN CHANGES

Any proposed changes to Buyer or Contractor design media needs to be approved by the Buyer. Changes to the design media shall be made via a Buyer's Design Change Notice (DCN) or using the Contractor's change control process (redline process). The design change control process to be utilized shall be determined after review of the Contractors change control process.

The Contractor shall submit a copy of their change control process (i.e., redline process) to the Buyer for approval. If the Contractor's change control 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.

Proposed changes to the design media shall be managed using the process described below:

- When corrections, improvements, or questions are identified against the drawings, the Contractor shall notify the Buyer using a Request for Clarification (RCI). The

Contractor shall describe the issue and provide a proposed resolution. A markup of the drawing may be attached to the RCI if necessary to communicate the proposed change.

- The Buyer shall review the proposed change, generate a disposition, and return the RCI to the Contractor. If the Buyer concurs a drawing change is necessary, the Buyer shall either prepare a DCN or utilize the Contractor's change control process. Buyer approval of the change control document (DCN or Contractor change document) is required prior to implementation of the change. For expeditious response, and if using the Contractor red-line process, initial approval of the change can be given per e-mail but shall be followed up with the Engineering approving and authorizing the change in the Contractors Change Process, Change Control Log.
- If the Contractor believes the RCI response constitutes a Contract change, the Contractor shall immediately process a Contract Change Form (A-6007-382) and await receipt of additional written instruction from the Contract Specialist.
- The Contractor shall submit the final redline drawings to the Buyer for incorporation into the as-built drawings. Final acceptance by the Buyer requires that the actual configuration of each item matches the approved drawing redline changes.

5.0 PERSONNEL REQUIREMENTS

5.1 TRAINING AND QUALIFICATION

The Contractor is expected to provide appropriately trained and qualified staff to perform the type of work specified.

5.2 WORK HOURS

The Contractor shall be available between the hours of 6:00AM and 4:30PM PST on weekdays excluding Friday.

6.0 ENVIRONMENTAL, SAFETY, HEALTH, AND QUALITY REQUIREMENTS

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

6.1 SAFETY REQUIREMENTS

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

6.2 QUALITY ASSURANCE AND CONTROL

The Contractor shall maintain a documented Quality Assurance Program and implementing procedures. The Contractor shall submit a copy of their QA Program with their proposal for review and approval prior to beginning work. If the Contractor’s QA Program has been evaluated by MSA, Inc., and is listed on the current Hanford Evaluated Supplier’s List for the required scope, then the Contractor need only reference the ESL listing.

The Contactor Quality Assurance Program shall contain the elements equivalent to the following:

- 6.2.1** Design Control
- 6.2.2** Procurement Document Control
- 6.2.3** Document Control
- 6.2.4** Control of Purchase items
- 6.2.5** Control of Process
- 6.2.6** Inspection
- 6.2.7** Test Control
- 6.2.8** Control of Measuring and Test Equipment
- 6.2.9** Handling, Storage and Shipping
- 6.2.10** Control of Nonconforming items
- 6.2.11** Quality Assurance Records

The Contractor is responsible for performing 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. The Contractor must allow access to their facility, work site, or sub-contractors facility or worksite at any time during this contract for CHPRC personnel to perform inspections or surveillances.

6.3 QUALITY ASSURANCE PROCUREMENT REQUIREMENTS

The Contractor shall comply with the following Procurement Quality Requirements listed in Table 6.3.

Table 6.3 Procurement Quality Requirement List

Section	Description
6.3.1	Supplier Use of Calibrated Equipment
6.3.2	Fabrication/Inspection/Test Plan
6.3.3	Supplier use of Commercial-Off-The-Shelf Software

Table 6.3 Procurement Quality Requirement List

Section	Description
6.3.4	Source Inspection
6.3.5	Nonconformance documentation and reporting
6.3.6	Certified Weld Inspector (CWI)
6.3.7	Welding procedures and qualifications
6.3.8	Nondestructive Examination Process
6.3.9	Identification and Traceability of Items
6.3.10	Certified Material Test Report
6.3.11	Inspection and Test Report
6.3.12	Control of Graded Fasteners
6.3.13	Procurement of Potentially Suspect or Counterfeit Items
6.3.14	Certificate of Conformance
6.3.15	Packaging/Shipping Procedures

6.3.1 Supplier Use of Calibrated Equipment

The Supplier shall submit certification stating that the Supplier owned equipment used by the Supplier in the performance of the work listed in the procurement documents has been calibrated utilizing standards whose calibration is traceable to the National Institute of Standards and Technology. If no such standard(s) is available, the Supplier shall submit for review and approval, documentation stating the basis of the equipment's calibration. This certification shall include a report of actual calibration results. The documentation shall be identifiable to the equipment being used and to any acceptance criteria listed in the procurement documents. The report shall contain the signature, with printed name, of the authorized representative of the agency who performed the calibration.

1. Prior to the start of work, the Supplier shall submit the latest calibration certification/report certifying that all calibrated Supplier used equipment is in-calibration.
2. During the course of the contract, the Supplier shall submit a calibration certification/report certifying that all calibrated Supplier owned equipment was calibrated at any manufacture recommended or other prescribed intervals that occur during the life of the work, or whenever the accuracy of the equipment is suspect.
3. Upon completion of work that requires its use, the Supplier shall submit a closeout calibration certification/report certifying that all calibrated Supplier used equipment was recalibrated.

If at any time during the course of contract, the Supplier owned equipment's as-found calibration measurements are out-of-tolerance; the Supplier shall notify the Buyer and submit a copy of the calibration report showing the discrepant as-found measurements. The Supplier shall evaluate the use of the equipment to determine if previously collected data is acceptable. The Supplier shall submit for approval written documentation of this evaluation, including, as necessary, recommendations for the recollection of previously collected data found to be unacceptable.

One copy of the all required documentation, unless otherwise specified, shall be submitted for review and approval.

6.3.2 Fabrication/Inspection/Test Plan

The Contractor shall prepare detailed fabrication/inspection/test plans (Travelers). The Contractor shall submit to the Buyer for approval of the completed traveler unless otherwise specified in procurement documents. Each plan shall include the following: Traceability to Buyer's Purchase Order/Contract Order document number.

- Description of items to be fabricated/tested/inspected (e.g., components, subassemblies, assemblies).
- Sequential fabrication/process steps.
- Sequential points for inspection and tests to be performed during fabrication/processing.
- Method/procedure to be used for performance of inspection/test/fabrication, including:
 - Each characteristic or attribute to be evaluated,
 - The report form to be utilized,
 - Specific Codes/Standard requirements as specified by procurement documents i.e., ASME, ASTM, ANSI, etc., and
 - Sampling plans for final characteristics (e.g., AQL, lot size, inspection level), where applicable.

Subsequent revisions/modifications to the fabrication/inspection/test plan document require review and approval by the Buyer prior to implementation of the change. When subcontracting any portion of this Purchase Order/Contract Order, the Contractor is required to flow down the applicable quality assurance program requirements on their Subcontractor's for the work performed.

6.3.3 SUPPLIER USE OF COMMERCIAL-OFF-THE-SHELF SOFTWARE

The Supplier shall submit the following documentation for all engineering analysis/design, data analysis/reduction, and engineering/environmental modeling commercial-off-the-shelf (COTS) software¹ (application) used in the performance of work listed in the procurement documents.

1. Description of the COTS software, including:
 - a. Manufacture's name and address,
 - b. COTS application's title and version identifier
 - c. Operating system and hardware platform that will be used,

- d. Manufacture's Technical Specifications or other published description of the COTS application's theoretical basis of operation or conceptual/mathematical models.
2. Standard data set(s) used to verify operation of the COTS application.
 - a. Data sets shall cover each function or mode of operation which will be used during the performance of the work listed in the procurement documents.
 - b. When the COTS application's range of operation cannot be verified by a single data set, the Supplier shall submit, as a minimum, data sets covering the upper and lower thirds of its range.
 3. The results expected from the standard data set(s) including the basis for accepting the standard data expected results, such as:
 - Comparison with hand calculations,
 - Comparison with calculations using comparable proven problems,
 - Comparison with information from published data,
 - Comparisons with other validated computer programs, or
 - Comparisons with experiments and tests.
 4. The output generated by the COTS application using the standard data set(s). This output shall include a statement warranting that the output accurately reflects the use of the standard data set(s) with the COTS application. The statement shall be on the Supplier's letterhead and signed, with printed name, by an authorized agent of the Supplier.

When required by the procurement documents verification of the COTS application operation using the submitted standard data set(s) shall be witnessed a Buyer's representative.

One copy of the documentation, unless otherwise specified, shall be submitted for review and approval.

¹ COTS software refers to an existing application which will be implemented on a standard operating system without the need for modification of its executable/object code.

6.3.4 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.

6.3.5 Non-conformance Documentation and Reporting

All non-conformances identified at the Contractor's facility with a proposed disposition of "Accept" or "Repair" shall be approved by the Buyer before any corrective action is taken by the Contractor on the nonconformance.

Accept: A disposition that a nonconforming item will satisfactorily perform its intended function without repair or rework.

Repair: A disposition requiring the processing of a nonconforming item so that its characteristics meet the requirements listed in the disposition statement of the nonconformance report.

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

After the recommended disposition has been evaluated by the Buyer, the form shall be returned to the Contractor with a disposition of approval or rejection. The Contractor may take corrective action on the nonconformance only after the form is approved.

The Contractor's non-conformance shall be noted on the COC and shall be included in the Final Data Package.

6.3.6 Certified Weld Inspector (CWI)

Supplier personnel performing weld inspections shall be certified as a Certified Weld Inspector (CWI) in accordance with the requirements specified in AWS QC-1.

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

- Current AWS CWI certificates.
- Current and valid visual acuity examination. The examination must be performed annually.
- Visual weld inspection procedures.

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

6.3.7 Welding Procedures and Qualifications

- Welding procedures and personnel shall be qualified in accordance with the applicable AWS or ASME specifications/code as specified in the Purchase Order/Contract order. The Supplier shall submit copies of all welding procedure specification (WPS), Procedure Qualification Records (PQRs), and Welder Performance Qualification Records (WPQRs) 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 Supplier is required to invoke the applicable quality assurance program requirements on the subcontractor.

6.3.8 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.

The Supplier 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 Supplier is required to invoke the applicable quality assurance program requirements on the subcontractor.

6.3.9 Identification and Traceability of Items

All items shall be identified with the part, heat, batch, or serial number and the Purchase Order and line item number. Identification shall be on the item or the package containing the item. Where identification is on the item, such markings shall not impair the service of the item or violate dimensional, chemical, or physical requirements.

6.3.10 Certified Material Test Report

- The Certified Material Test Report (CMTR) shall include actual results of all chemical analysis, tests, examinations, and treatments required by the material specification and this Purchase Order/Contract order for all ASTM/ASME materials. The CMTR shall be legible, reference applicable specification number and year of edition, and be traceable to the material furnished by heat or lot number. All reports are subject to review and acceptance by the Buyer.
- The report(s) shall contain the Purchase Order/Contract Order number and a description of the item to which the report applies. The report shall be signed by an authorized representative of the Company.
- One copy of the documentation, unless otherwise specified, shall accompany the applicable item(s) shipped.

6.3.11 Inspection and Test Reports

The Contractor shall submit legible, reproducible copies of Inspection/Test Reports. The report(s) shall include the following:

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

- Signature of the Contractor's authorized representative or agency which performed the inspections/tests.

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

6.3.12 Control of Graded Fasteners

The provisions stated below are the minimum Department of Energy requirements for high strength graded fasteners produced in compliance with national consensus standards (e.g., SAE, ASTM, ASME).

- Fasteners shall exhibit grade marks and manufacturer's identification symbols (headmarks) as required in the specifications referenced in the Purchase Order/Contract Order.
- Any fasteners supplied with headmarks matching those displayed on the attached Suspect/Counterfeit Fastener Headmark list, or facsimiles thereof, shall be deemed to be unacceptable under the terms of this Purchase Order/Contract Order.
 - [Suspect Bolt Head Marking Card](#)
 - [Suspect Stainless Steel Fastener Headmark List](#)
- When requested by the Buyer, the Supplier shall provide a legible and reproducible copy of the manufacturer's Certified Material Test Reports (CMTR). These CMTRs shall report the values of the actual chemical and physical tests performed on the represented fastener lot/material heat. Fastener packaging/labeling shall be traceable by lot number or other positive means to the CMTRs.
- Fasteners shall be inspected to verify compliance with the Purchase Order/Contract Order requirements. Additionally, fasteners may also be subjected to destructive testing.
- When requested by the Buyer, the Supplier shall provide a Certificate of Conformance which must certify conformance and traceability of supplied materials to the subject Purchase Order/Contract Order. The document must be legible and reproducible.

6.3.13 Procurement of Potentially Suspect or Counterfeit Items

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; 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>.

6.3.14 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, at 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.
- List any NCR's affecting the product that have been submitted for approval.
- 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.

6.3.15 Packaging/Shipping Procedures

The Supplier shall prepare and submit for approval, prior to use, a procedure or plan for the packaging and shipping of items during the performance of this Purchase Order/Contract Order. The procedures shall include, as appropriate, cleanliness inspections prior to packaging, use of preservatives and coatings, descriptions of specially designed shipping containers, handling and

rigging procedures, final inspections, and the type of transfer and shipping vehicles, as applicable to work scope. Examples of the packing and shipping inspection forms shall be included in the procedure or plan. The packaging and shipping plan shall include any special storage requirements required for the equipment stored for extended periods of time and specific climate control required for storage.

6.4 QUALITY ASSURANCE INSPECTION PLAN

6.4.1 The Buyer will perform source/receipt inspections utilizing Acquisition Verification Services (AVS). Equipment shall be shipped to Hanford Site Warehouse and Stores Delivery, 2355 Stevens drive, Richland WA. for receipt inspection prior to final acceptance by CHPRC.

6.5 BUYER ACCESS

6.5.1 The Contractor shall allow reasonable Buyer personnel access to the Contractors facility for quality assurance oversight of the fabrication process and equipment testing. Specific QA observation and QC witness and hold points will be communicated to the Contractor through insertion of specific oversight request points in the Contractors Fabrication, Inspection and Test Plant (Traveler). Contractor shall allow CHPRC personnel (Quality Assurance Engineer (QAE), Buyers Technical Representative (BTR), Design Authority (DA) and Acquisition Verification Services (AVS) Inspectors into the Contractors Facilities.

7.0 MEETINGS AND SUBMITTALS

7.1 MEETINGS

Contractor shall participate in the following meetings:

7.1.1 Project Kickoff meeting. This meeting will be held 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 shall be provided by the Buyer.

7.1.2 Weekly Progress meeting. This meeting will be coordinated with the Contractor to occur at a day/time acceptable to both the Buyer and the Contractor. The Contractor shall provide a two-week “look ahead” schedule, updated weekly, one day prior to each scheduled meeting

7.1.3 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.

7.2 SUBMITTALS

- 7.2.1** The required submittals for this contract are listed in Attachment 1, Submittal Register.
- 7.2.2** CHPRC distribution, review, routing, return for re-submittal, if required, and approval of all Contractor submittals shall be based on CHPRC's 4x10 schedule. For example, submittals received by CHPRC after 12:00 PM on Thursday will be distributed and reviewed beginning the following Monday, and will have the complete duration of review time as stated in the submittal register (See Attachment 1).
- 7.2.3** The Contractor submittals identified herein on the Submittal Register, Attachment 1, 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.
- 7.2.4** 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.
- 7.2.5** CHPRC's Document Management and Control System (DMCS) shall be used to electronically manage document submittals and RCIs for this contract. The address to transmit submittals and RCIs to is SRPCDC@rl.gov.

7.3 FINAL DATA PACKAGE

The Contractor shall submit test and inspection reports, redlined drawings, and vendor information (drawings, spec sheets and O&M manuals) with the final data package.

The Contractor shall prepare a final data package with a table of contents in a binder containing the quality records listed with every page sequentially numbered.

- 7.3.1** Certificate of Conformance
- 7.3.2** Copies of completed NCR's, as applicable
- 7.3.3** Completed fabrication traveler
- 7.3.4** Inspection and test reports
- 7.3.5** Procurement of Potentially Suspect or Counterfeit Items
- 7.3.6** Certified Material Test Reports
- 7.3.7** Redline Process documentation including log and marked up drawings/documents
- 7.3.8** Packaging/Shipping Procedure

All documents shall be legible and reproducible to the third generation.

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

8.1 DELIVERABLES

Deliverables under this SOW are specified in Section 3 and Attachment 1, *Submittal Register*. The Task-2 desired delivery to AVS for inspection by April 30, 2020.

8.2 PROJECT CONTROLS

The Contractor shall provide a detailed baseline schedule covering activities for the duration of the Contract. The schedule should 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 relationships of activities for engineering, design, submittals, procurement, fabrication, inspection, testing, and delivery for work covered by Contract. The Contractors schedule should account for CHPRC review times of submittals and comment incorporation as stated in the Submittal Register column "CHPRC Review Time".

The Contractor shall provide a detailed fabrication schedule. The schedule shall include as a minimum the following contents for each of the above fabrication packages

Activity ID
Activity Description
Original Duration
Remaining Duration
Start
Finish
% Complete
Total Float
Predecessor
Successor
Activity Budget

8.2.1

8.3 PERFORMANCE SCHEDULE

This contract shall be effective from time of award through Contract end date.

8.4 EQUIPMENT STORAGE

The Buyer may wish to temporarily store the fabricated equipment at the Contractors Facility after equipment fabrication. The Contractor shall provide monthly costing for storage of any completed equipment prior to delivery broken down by task in Section 3.0.

Mechanical equipment shall be stored with covered overhead and sufficiently protected from rain and snow.

STATEMENT OF WORK
Procurement Specification for
4 Inch Shielded Waste Box
For the 324 Building Disposition Project

The Contractor should assume that equipment acceptance will remain the same and that storage cost, if required, would only commence after the date for scheduled delivery (See Section 8.1).

For the 324 Building Disposition Project

Attachment 1

Submittal Register

For the 324 Building Disposition Project

Submittal Register

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

Contract Number:					Revision:			
1. No.	2. Type, and Number of Copies	3. Technical Submittal	4. Vendor Information	5. Description / Document Title	6. Submittal Date CD – Calendar days WD – Work days	7. Approver Organization	8. CHPRC Review Time (WD)	9. Contract Paragraph or Requirement Reference
100 – PROJECT CONTROLS								
101	APW PDF/N	No	No	Baseline Schedule and any Revisions	A + 5 WD	PC	8	SOW 8.2
300 - QUALITY								
301	APW PDF	Yes	No	Quality Assurance Program and Implementing Procedures (If Required)	PW	QA	4	SOW 6.2
306	APW PDF/N	Yes	No	Fabrication/Inspection/Test Plan for each Shield Assembly	PF	ENG	8	SOW 3.2 SOW 6.3.2
309	APW PDF	Yes	No	Source Inspection (If Required)	PW	QA	4	SOW 6.3.4
313	AP PDF	Yes	No	Nonconformance Documentation and Reporting	Z	QA	4	SOW 6.4.5
314	APW PDF	Yes	No	Certified Weld Inspector Documentation	PF – 14CD	SME	8	SOW 3.7.1.5 SOW 6.3.6
315	APW PDF	Yes	No	Welding Procedure Specifications (WPS)	PF – 8WD	SME	8	SOW 3.7.1.2 SOW 6.3.7

For the 324 Building Disposition Project

Contract Number:					Revision:			
1. No.	2. Type, and Number of Copies	3. Technical Submittal	4. Vendor Information	5. Description / Document Title	6. Submittal Date CD – Calendar days WD – Work days	7. Approver Organization	8. CHPRC Review Time (WD)	9. Contract Paragraph or Requirement Reference
316	APW PDF	Yes	No	Welding Procedure Qualification Records (PQR) (To be submitted separately for each qualified PQR)	PF – 8WD	SME	8	SOW 3.7.1.3 SOW 6.3.7
317	APW PDF	Yes	No	Welder Performance Qualifications records (WPQR)(To be submitted for each qualified welder)	PF – 8WD	SME	8	SOW 3.7.1.4 SOW 6.3.7
326	AP PDF	Yes	No	Certified Material Test Report	Z	ENG	4	SOW 6.3.10
327	AP PDF	Yes	No	Inspection and Test Reports for Shield Assemblies	Z	QA	4	SOW 6.3.11
336	AP PDF	Yes	No	Control of Graded Fasteners	Z	QA	4	SOW 6.3.12
337	AP PDF	Yes	No	Procurement of Potentially Suspect or Counterfeit Items	U	QA ENG	4	SOW 6.3.13
338	AP PDF	Yes	No	Certificate of Conformance	Z	QA	4	SOW 6.3.14
343	AP PDF	Yes	No	Packaging/Shipping Procedures	PS	ENG	4	SOW 3.7.3 SOW 6.3.15
345	APW PDF	Yes	No	Change Control Process (Redline Procedure)	PF	ENG	4	SOW 4.4

For the 324 Building Disposition Project

Contract Number:					Revision:			
1. No.	2. Type, and Number of Copies	3. Technical Submittal	4. Vendor Information	5. Description / Document Title	6. Submittal Date CD – Calendar days WD – Work days	7. Approver Organization	8. CHPRC Review Time (WD)	9. Contract Paragraph or Requirement Reference
346	AP PDF	Yes	Yes	Final Data Package	PS	QA	8	SOW 7.3
400 - ENGINEERING / DESIGN								
401	APW PDF/N	Yes	No	System Design, Drawings, and Supporting Analyses	PF	ENG	8	SOW 3.1
403	AP PDF	Yes	No	Final Drawing Redlines	PS	ENG	4	SOW 4.4 SOW 7.3

- Typically a numerical sequence (i.e., 1, 2, 3, etc.). However, other numbering systems may also be used. Skipped numbers indicate submittals are not applicable.
- Submittal type, number of copies and format:

Submittal Type		Format	
APW	Approval Required Prior to Work (CHPRC must approve the Contractor’s submittal prior to the Contractor being authorized to proceed with any activity/work associated with the submittal).	N	Native File (An AutoCAD drawing*, SolidWorks, MathCad, Word, Excel, Power Point, Primavera, Project, etc.)
AP	Approval Required (CHPRC must approve the Contractor’s submittal; however, work associated with the submittal may proceed prior to CHPRC approval).	PDF	Adobe Acrobat (Portable Document Format)
		GEN	General or Open Format/Media
		H#	Hardcopy reproducible to three (3) times

* using the Hanford standard formatting (See CHPRC-00263, *Off-Site Vendor Instructions for the Preparation and Control of Engineering Drawing*)

- 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.

For the 324 Building Disposition Project

- 4. Vendor Information for project record purposes.
- 5. Description / Document Title. Describe submittal.
- 6. Required submittal date or its relationship to project milestones. CD = Calendar Days. WD = Work Days. Example: are Award (A) + 15 CD

A	Date of Award	Z	As Required	FD	Final Design Complete
NTP	Notice to Proceed	PP	Prior to Purchase	EC	End of Contract
CD	Conceptual Design Complete	PF	Prior to Fabrication	SC	Per S/C Schedule
PD	Preliminary Design Complete	PT	Prior to Testing		
PW	Prior to Commencing Work	PS	Prior to Shipment		
		U	Prior to Use		

- 7. Approver Organization. Examples:

BTR	Buyer Technical Representative	PR	Procurement	RC	RadCon
ENV	Environmental Compliance/EPL	QA	Quality Assurance	SH	Safety & Health
ENG	Engineering Services	IH	Industrial Hygiene	SME	Subject Matter Expert
FP	Fire Protection	PC	Project Controls	WM	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.

NOTE: SKIPPED NUMBERS OR "N/As" INDICATE RESERVED SUBMITTAL NUMBERS NOT APPLICABLE TO THIS CONTRACT

Attachment 2

Drawings

Drawings

The drawings in this attachment are incorporated into and made a part of this Contract to the extent indicated in this Statement of Work.

Number	Sheets	Title
H-3-318600	2	4" Shielded Waste Box Assembly



H-3-318600 Rev1 - 4
Shielded Waste Box