STATEMENT OF WORK

Requisition #: 316396

Title: Immobilized Low-Activity Waste (ILAW) Trailer Fabrication

Revision Number: 0

Date: May 30, 2019

1.0 Objective

Fabricate three drop-deck trailers for Washington River Protections Solutions (WRPS) to support transportation of ILAW from the Hanford treatment facility to the disposal facility.

2.0 Background/Introduction

The Hanford Tank Waste Treatment and Immobilization Plant (WTP) will vitrify radioactive tank waste streams and place the molten glass in stainless steel containers. These ILAW glass containers will leave the WTP within a specialized system for transport to the Hanford Integrated Disposal Facility (IDF) for final placement and disposal. The transport system is comprised of standard commercial drop-deck trailers and three specialty-fabricated pallets, housing three ILAW glass containers. The pallets provide tie-down of the ILAW glass containers on the trailer through connection of the pallet to the trailer via standard industrial ISO container twistlocks. The pallets will be removable from the trailer to facilitate cooling of the ILAW glass container without committing the trailer to lengthy staging. The trailers will be transported using standard diesel truck cabs between the IDF and WTP facility over approximately 2 miles of paved road. The trailers will also be staged/moved within the WTP and IDF facilities over paved and gravel areas. Total weight of the trailer, three pallets, and three ILAW containers is approximately 80,000 pounds. Overall arrangement of the ILAW transporter system is shown in Figure 1. The ILAW Transportation System will also be used to transport non-radioactive test glass containers from the WTP to a commercial vendor for waste disposal, over public highways and roads.

3.0 Scope

Fabricate three (3) drop-deck trailers per attached drawings, specification, and data sheet. Delivery shall be to Hanford warehousing receiving in Richland, WA. Trailers shall be shipped by driving to WRPS, with temporary license and permits covered by the fabricator. Details are noted below.

3.1 Fabrication Plan, to include:
   1. Approach for fabrication of trailers in compliance with the specified technical requirements.
   2. Proposed fabrication schedule

3.2 Fabricate trailers
   1. Single completed trailer and completion documentation delivered no later than December 1, 2019.

Figure 1. ILAW Transporter System
2. Remaining two trailers and completion documentation delivered no later than June 1, 2020.

3.3 Support the following minimum interfaces:
   1. Contract award kickoff meeting with statement of work review.
   2. A minimum of two (2) and maximum of five (5) site visits to conduct quality assurance surveillances, pre-shipment inspections, and final documentation set preparation. Subcontractor shall provide copies of quality assurance documentation to Buyer during surveillances and inspections.
   3. Receipt Inspection & Acceptance of First Article (one trailer)
   4. Receipt Inspection & Acceptance of two (2) trailers

3.4 Provide the following fabrication documentation, as identified in the attached ILAW Container Transport Trailer Data Sheet, DS-ILAW-EG-0002:
   1. Operation and maintenance information - Drawings/manuals shall specify the materials of construction – specifically, the material specification(s) and grade for metallic components/systems/welds in the fabrication (ASTM, ISO, ASME, etc.), welding code of record, any changes in the materials of record, and specialty materials where no material specification exists shall be identified and detailed (i.e., specify chemical analysis, physical properties, and manufacturing source).
   2. Recommended spare parts list

3.5 Provide the following fabrication documentation, as identified in the attached ILAW Container Transport Pallet Data Sheet, DS-ILAW-EG-0002 (See Attachment A):
   1. Fabrication, Inspection & Test Plan
   2. First Article Inspection Data
   3. Nonconformance Reporting
   4. Certified Weld Inspector
   5. Certified Material Test Report
   6. Inspection and Test Report
   7. Control of Graded Fasteners

4.0 Submittals

In support of the work scope established in Section 3.0 above, submittals are listed on the Master Submittal Register (MSR).

Submittals shall be provided using the Buyer’s Incoming Letter of Transmittal form provided by the Procurement Specialist. All transmittal subject headings shall contain, at a minimum, the subcontract number, submittal number, and submittal description.

Submittals shall be provided in electronic format unless available only as a hard copy. Electronic submittals shall be sent in accordance with instructions provided by the Procurement Specialist. Electronic formats must be non-password protected in one of the formats noted on the Procurement Website located and the following web address:

http://www.hanford.gov/tocpmm/files.cfm/APPROVED ELECTRONIC RECORD FOR MATS.pdf
5.0 Acceptance Criteria

All trailers and associated documentation shall meet the requirements of the attached drawings, specification, and data sheet.

Specific call-outs:

1. Transporter trailer must comply with all United States Federal Motor Vehicle Safety Standards (FMVSS) and Department of Transportation (DOT) requirements in the state of Washington. All applicable FMVSS standards and DOT requirements shall be summarized in the Certificate of Conformance.

6.0 Configuration Management and Standards

6.1 Configuration Management Requirements

There are no specific Configuration Management requirements applicable to this SOW.

6.2 Applicable Standards

APPLICABLE CODES AND STANDARDS

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<tr>
<th>Number</th>
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<tr>
<td>1.</td>
<td>SAE J318 (2013) Automotive Air Brake Line Couplers</td>
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<td>2.</td>
<td>SAE J560 (2016) Primary and Auxiliary Seven Conduction Electrical Connector</td>
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<td>3.</td>
<td>SAE J682 (2011) Rear Wheel Splash and Stone Throw Protection</td>
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<td>4.</td>
<td>SAE J701 (2017) Truck Tractor Semitrailer Interchange Coupling Dimensions</td>
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<td>5.</td>
<td>SAE J702 (2013) Brake and Electrical Connection Locations</td>
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<td>6.</td>
<td>RCW (WA) 46.44 Size, Weight, Load</td>
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<td>10.</td>
<td>ASME B&amp;PVC, Section IX (2017) Welding, Brazing, and Fusing Qualifications</td>
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<tr>
<td>15.</td>
<td>AWS 2-4 Standard Symbols for Welding, Brazing and Nondestructive Examination</td>
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7.0 ESH&Q Requirements

7.1 Quality Assurance Requirements
The Subcontractor shall follow standard commercial quality practices.

7.2 Price-Anderson Amendments Act Requirements
This 7.2 section and the General Provisions Article 2.11 entitled, Price-Anderson Amendments Act (PAAA), are both determined to be not applicable.

7.3 Special ESH&Q Requirements
Hanford site access is not authorized for work to be completed under this SOW.

8.0 Verification/Hold Points
As part of the subcontract submittal process and unless otherwise specified, WRPS will review documents and designate all required reviews, inspections, witnessing, and notification points.

8.1 Inspection
Procure material and fabricate the first article in accordance with 3.2.1, prior to beginning fabrication of the remaining trailers. WRPS will conduct an inspection of the first assembled trailer to validate its construction against criteria, during and after its fabrication.

9.0 Reserved

10.0 Work Location/Potential Access Requirements
Access to Hanford site offices may occur for meetings. Access to non-radiological Hanford site areas may occur (e.g., Hanford Cold Test Facility) for inspection of the existing ILAW transportation system.

11.0 Training
Not applicable.

12.0 Qualifications
Not applicable.

13.0 Special Requirements
Use of Government Vehicles
There is no anticipated need for any Subcontractor employees to use a Government-furnished vehicle in the performance of this statement of work. The Subcontractor’s employees, therefore, are specifically prohibited from driving any Government-furnished vehicles under the performance of this statement of work unless this statement of work is formally so modified by the parties and the employee(s) will present a valid driver’s license to the BTR for review.
Government Property

There is no government-furnished property applicable to this statement of work.

14.0 Reporting/Administration

The Subcontractor shall provide a monthly cost and schedule report to include:

- Accomplishments (including photos)
- Schedule Status
  - Four (4) week look ahead
  - Current Schedule Status
- Identified Issues
- Outstanding Action Items
- Submittal Status

15.0 Workplace Substance Abuse Program Requirements

A Workplace Substance Abuse Program is not required for this SOW.
The following is a list of expected documentation submitted for each trailer included in the Statement of Work (SOW). This list is not inclusive and may include additional items for vendors to demonstrate compliance with the fabrication of the trailers.

I. Certificate of Conformance - *(Signed document with certification that item meets all the requirements)*

II. Inspection & Test Report – *(Detailed documentation for each item fabricated to include all requirements and processes.)*
   a. Applicable inspection report(s)
   i. Test Procedures used in inspections
   ii. Traceability to the item inspected/tested, (i.e., serial number, part number, etc.).
   iii. Certification and record of authorized representative performing inspection/tests.
   iv. Documentation of all inspection and testing results shall be included in the Fabrication and QA documentation submittal for each trailer.
   b. Completed As-Built drawings and QA documentation submittal for each trailer.
   c. Documentation that each trailer meets the dimensional requirements shall be provided by a dimensional conformance report.
   d. Welding procedures used in fabrication, qualified per AWS D1.1, Structural Welding Code – Steel.
      i. Copy of the welding procedures and weld procedure qualifications
      ii. Welding code(s) of record shall be specified on the As-Built drawings.
   e. Detail all weldments and nondestructive examination requirements in accordance with AWS A2.4.
   f. Each Welders’ qualifications per AWS D1.1, Structural Welding Code – Steel.
   g. Compliance with all United States Federal Motor Vehicle Safety Standards (FMVSS) and Department of Transportation (DOT) requirements in the state of Washington.

III. General Manufacturing Material Test Reports – *(Backup documentation and certification of materials used and applicable ASTM/ASME documentation)*

   a. Certified Material Test Reports
   b. Certificates of Compliance
   c. Welding Material Certificates
   d. Bolt Material Certificates of Conformance