



January 21, 2026

Dear Interested Parties:

**EXPRESSION OF INTEREST FOR  
FABRICATION OF A PRETREATED WASTE STORAGE TANK (PWST)  
FOR THE WEST AREA TANK FARMS RISK MANAGEMENT (WARM) PROJECT**

**INTRODUCTION:**

Hanford Tank Waste Operations & Closure LLC (H2C), a prime contractor to the U.S. Department of Energy (DOE), Hanford Field Office (HFO) at the Hanford Site is conducting the final design for the 200 West Area Tank Farms Risk Management (WARM) project. This project will address the need for long-term cesium removal capability in support of the mission to remove tank waste supernate from the Double-Shell Tank system to provide space for Single-Shell Tank waste retrievals.

This Expression of Interest (EOI) is a means of conducting market research to identify parties having an interest in and the resources to perform fabrication services for a hazardous/dangerous waste storage tank for the WARM Project in support of the Integrated Tank Disposition Contractor's (ITDC) mission. The WARM project is a capital asset project subject to the Critical Decision process of DOE O 413.3B.

**BACKGROUND:**

H2C is contracted to provide safe, compliant, cost-effective, and energy-efficient services to further the HFO Project Mission. To safely complete the HFO Project Mission, various permanent or temporary systems and associated components are required.

The West Area Tank Farms Risk Management (WARM) facilities will provide pretreatment capabilities for the wastes originating from the Single Shell Tanks (SSTs) and Double Shell Tanks (DSTs) located inside the 200W Area and the capability to transfer the pretreated waste to a Load In / Load Out (LILO) station for off-site shipment.

Pretreatment of the radioactive tank waste stored inside the SSTs and DSTs is to be accomplished by removing entrained solids, Cesium-137, and Strontium-90 from the waste via process enclosures that utilize Crystalline Silicotitanate (CST) ion exchange media. The pretreated waste is to be transferred to and stored inside an interim storage tank called the Pretreated Waste Storage Tank (PWST) until the waste is transferred to the LILO Station for off-site shipment. The PWST shall receive, store, and transfer waste in accordance with the Washington Administrative Code for storage of dangerous waste, among other requirements as listed in the draft specification in Attachment 1.

The PWST is a 24 ft diameter horizontal vessel with an overall length of approximately 44 ft that is installed inside of an underground containment vault. The horizontal vessel has torispherical

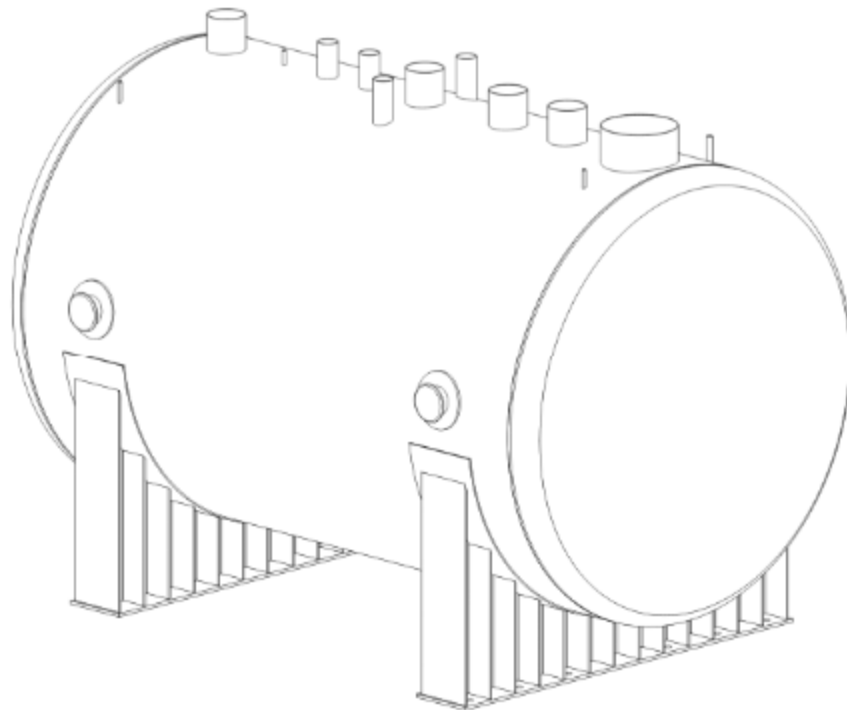


heads on both ends and is supported by vessel saddles. Transfer pumps (vertical turbine pumps) installed onto the main (48-inch diameter) PWST riser are utilized to transfer the pretreated waste to the Load In Load Out (LILO) Station. During periods in which transfers out of the tank are not occurring, the transfer pumps are used to recirculate the tank contents for mixing and solids suspension.

Material of construction in the pressure boundary is carbon steel SA-516 Grade 70. The PWST will be fabricated with riser stubs for transport. Riser extensions will also be fabricated and shipped separately to the construction site for assembly.

The underground concrete vault into which the PWST vessel is placed is planned to be constructed prior to transportation and delivery of the PWST vessel. Due to the size of the vessel, the transportation of the PWST to the Hanford site is expected to require significant planning and special permitting. River barge shipment is common to the Hanford site for large equipment. Barge dock information is available from the Port of Benton at <https://portofbenton.com/our-properties-facilities/barge-slip-high-dock/>.

The shipment strategy and hoisting plan will need to account for the support saddles being welded to the PWST prior to shipment. After placement of the vessel onto the concrete vault foundation using a crane, the PWST riser extensions will be field welded onto the stubbed risers of the vessel by the H2C construction general contractor. Installation of the PWST riser extensions is to be performed concurrently to the construction of the concrete vault roof. The PWST vessel, support saddles, and attached riser stubs without riser extensions is shown in Figure 1-1.



**Figure 1-1. PWST Vessel Including Riser Stubs and Support Saddles**



Further details are provided in preliminary design documents per Attachments 2 and 3. These preliminary design documents are provided for information only and are subject to change prior to release of a Request for Proposal.

### **SUMMARY OF WORK SCOPE:**

The future Subcontractor shall provide labor, materials, and services required for the fabrication, inspection, testing, and delivery of the PWST vessel, including, riser extensions, and support saddles. The riser extensions shall be fabricated and shipped separately. The support saddles shall be fabricated and welded to the PWST vessel prior to shipment. After delivery and installation of the vessel into the underground concrete vault at the site, the riser extensions will be field welded to the top of the stubbed vessel risers by H2C construction general contractor.

The PWST is not an ASME code stamped vessel, but it shall be designed, fabricated, quality assured, and documented to the same rigor as that of a Boiler and Pressure Vessel Code (BPVC) Section VIII Division 1 vessel. The omission of a code stamp is driven by administrative considerations and expected inspection intervals, as no personnel access inside the vessel or concrete vault are planned.

The future Subcontractor shall develop a shipping plan for the PWST vessel from the fabrication facility to the installation location on the Hanford site. The tank will be installed on the east side of SY Tank Farm in the 200 West Area of the Hanford site near Richland, WA.

The future Subcontractor shall provide all aspects of the engineering and fabrication services including management and oversight of the work to ensure assignments are accomplished in accordance with the requirements of the technical specification and Statement of Work (SOW). The design is currently in development and will be provided in the Request For Proposal. Preliminary drawings and specification are included for information in Attachments 1, 2 and 3.

The following is a summary of the planned work scope:

1. Fabricate the PWST
  - a. Fabrication will be at the vendor's facility.
  - b. Provide the first line of Quality Assurance and Quality Control.
  - c. Perform Unlisted Component Evaluations per ASME BPCV as needed.
  - d. Support H2C Quality Assurance and Engineering, inspections, surveillances and audits.
  - e. Provide a shipping plan to transport the completed PWST to the installation site.



- f. Fabricate the PWST components in accordance with design and QA requirements.
  - g. Provide timely submittal of records, progress, and issues.
  - h. Deliver the PWST vessel, riser extensions, and support saddles to the Hanford site.
2. Support Installation and Commissioning of the PWST
    - a. Provide onsite expertise in support of the construction contractor (performed by others) including Construction Acceptance Testing (CAT).
    - b. Provide onsite expertise in support of Operational Acceptance Testing (OAT).

**TIMEFRAME FOR WORK SCOPE:**

H2C anticipates the duration of the work scope above to begin in August 2026 with support tasks continuing through 2029.

The design and fabrication of the PWST falls under DOE O 413.3B and requires critical decision (CD) approval by DOE to authorize capital funding. The future subcontract will be awarded in a phased approach.

1. WARM Project CD-3B approval will precede authorization of the fabrication for PWST components.
2. WARM CD-2 and CD-3 approval will precede authorization for installation and commissioning support.

**SUBCONTRACT TYPE:** Firm Fixed Price

**NAICS Code:**

North American Industry Classification System (NAICS) Code applicable to this work:  
**332999** - All Other Miscellaneous Fabricated Metal Product Manufacturing

**TECHNICAL CRITERIA:**

The following technical areas of applicable standards, technical requirements, personnel and qualifications, NAICS code, quality assurance, and expression of interest submittals provide more information on the scope of work.

**Applicable Standards:**

The prospective Offerors are expected to have working knowledge of government and industry codes and standards for engineering and fabrication disciplines including but not limited to the following:



- 10 CFR 830, Nuclear Safety Management
- 10 CFR 835, Occupational Radiation Protection
- 40 CFR 264, Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
- WAC 173-303, Dangerous Waste Regulations
- WAC 173-303-640, Tank Systems
- ASME B31.3, Process Piping
- ASME B31.1, Power Piping
- ASME B31.9, Building Services Piping
- ASME BPVC (If Applicable)
  - Section II, Materials
  - Section V, Nondestructive Examination
  - Section VIII-1, Rules for Construction of Pressure Vessels
  - Section IX, Welding and Brazing Qualifications
- ASME B16.34, Valves-Flanged, Threaded, and Welding End
- AWS D1.1, Structural Welding Code—Steel
- AWS D1.3, Structural Welding Code—Sheet Steel
- AWS D1.6, Structural Welding Code—Stainless Steel
- IBC, International Building Code
- NFPA 69 (2019) Standard on Explosion Prevention Systems
- NFPA 70, National Electric Code
- NFPA 497, Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
- ISA 84, Instrumented Systems to Achieve Functional Safety in the Process Industries
- DOE-STD-1066-2016, Fire Protection
- DOE-STD-1020 (2016) Natural Phenomena Hazards Analysis and Design Criteria for DOE Facilities
- DOE/RL-92-36, Hanford Site Hoisting and Rigging Manual
- ASME BTH-1 (2020), Design of Below-the-Hook Lifting Devices
- AISC 325 (15th Edition) (2017) Steel Construction Manual – 15th Edition
- AISC 360-16 (2016) Specification for Structural Steel Buildings
- AISC 341-16 (2016) Seismic Provisions for Structural Steel Buildings American Society of Mechanical Engineers (ASME) NQA-1-2008, *Quality Assurance Requirements for Nuclear Facility Applications*, including NQA-1a-2009 addenda
- DOE O 414.1D, Quality Assurance
- AISC N690 (2018) Specification for Safety-Related Steel Structures for Nuclear Facilities
- AISC Steel Design Guide 27 (2013) Structural Stainless Steel
- ASCE 7-16 (2017) Minimum Design Loads and Associated Criteria for Buildings and other Structures
- ASCE 43 (2005) Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities
- ANS 6.4-2006, Nuclear Analysis and Design of Concrete Radiation



## Shielding for Nuclear Power Plants (If Applicable)

### **Technical Requirements:**

The prospective Offerors are expected to have design and fabrication experience in the following:

- Experience with design and manufacturing of storage tanks/containment vessels for hazardous/dangerous waste.
- Desired experience includes manufacturing of containment vessels for highly caustic material or complex chemical mixtures.
- Experience with the fabrication and testing of ASME BPVC Section VIII Division 1 Pressure Vessels.

### **Personnel and Qualifications:**

The prospective Offerors shall demonstrate proven performance in delivering projects similar in scope, total cost, complexity, on time and within budget, with demonstrated technical competency under an implemented Quality Assurance Program.

The prospective Offerors history should demonstrate experience in similar and relevant work fabricating equipment for hazardous/dangerous material storage in chemical processing or other relevant applications. Personnel performing work should have training, experience, qualifications, and certifications to perform these tasks.

The prospective Offerors shall demonstrate they have the shop/labor capacity to fabricate the Pretreated Waste Storage Tank for the WARM Project to meet delivery schedule and demonstrate they have shop areas dedicated to material receipt, control, staging, cutting/grinding, welding, assembly, NDE, and testing.

### **Quality Assurance:**

The prospective Offerors QA program shall comply with the attached Quality Assurance Requirements (QAR). The Subcontractor Quality Assurance Program shall be developed to demonstrate compliance with the QAR Attachment 4 and shall have demonstrable implementation and objective evidence of that implementation. The potential Subcontractor may be Assessed or Audited, as elected by the Buyer prior to or following award, as applicable to validate any or all requirements are implemented.

All work performed shall be in strict compliance with the Request for Proposal (RFP) if/when issued.



### **Expression of Interest Submittals:**

Interested firms are invited to submit an expression of interest letter to include a response to the following:

1. Statement of company's interest to participate in the request for proposal.
2. Statement describing capability and experience to provide design and fabrication services.
  - a. This may include items such as advanced training, operating history, and licensing requirements for staff.
  - b. Past relevant history in fabricating similar/relevant equipment.
  - c. Past history shipping large equipment that requires extensive planning and permitting.
  - d. Past history fabricating to the codes and standards identified in this EOI
3. Quality Assurance Program Manual
4. Conceptual Shipping Plan
5. Company point of contact with email address, phone number, and company mailing address
6. Acknowledgement that at the time of proposal key personnel will be identified who meet all qualifications and evidence of competency, related experience, availability, and pertinent education will be provided through resumes and other documentation.
7. Company's past performance (provide a list of references, subcontract numbers, etc. per Exhibit 1 below)
8. A completed and signed CONFIDENTIALITY AGREEMENT (per Exhibit 2 below)

Prospective Offerors will need current registration within the Federal System for Award Management (SAM) with current representations and certifications information. In addition, potential offerors will need to be registered with H2C through its [vendor registration website](#) and have obtained a vendor identification number and form number (password). If assistance is required, please contact H2C Contract Support at [H2C\\_Procurement@rl.gov](mailto:H2C_Procurement@rl.gov).

### **EOI Requirements and Submittals**

Prospective Offerors are expected to meet EOI Requirements listed above to qualify for submitting an EOI letter. If Offeror doesn't currently meet these requirements, please provide a brief explanation for how you would make changes to meet requirements.

### **REQUEST**

H2C reserves the right to use information submitted by, or obtained from, a potential offeror in a manner H2C determines is appropriate including, but not limited to, the creation of a competitive solicitation based on submitted responses. H2C may choose to open discussions with one or more companies submitting an EOI. H2C will use these responses to identify viable suppliers to work with on this project.



## Prospective Offeror's Instructions

Email all correspondence regarding this EOI to H2C Procurement Specialist, Karen Fuentes at [karen\\_1\\_fuentes@rl.gov](mailto:karen_1_fuentes@rl.gov).

Technical questions must be received via email and sent to [karen\\_1\\_fuentes@rl.gov](mailto:karen_1_fuentes@rl.gov) by Thursday, February 12, 2026 no later than 4:00 p.m. PDT.

Expression of interest letters must be received via email and sent to [karen\\_1\\_fuentes@rl.gov](mailto:karen_1_fuentes@rl.gov) no later than Wednesday, Monday March 9, 2026. Include completed Exhibit 1 Past Performance in your Expression of Interest.

Use H2C-EOI-2026, Fabrication of a Pretreated Waste Storage Tank (PWST) for the West Area Tank Farms Risk Management (WARM) Project-OP192 in the email subject line where "XXXXX" is the company name.

H2C anticipates the Request for Proposal process to begin May 2026. We look forward to hearing from you regarding this request.

## Closing

This is not a request for proposal but a request for expression of interest. H2C will not award a contract(s) based on this expression of interest nor pay for information solicited.

Thank you for your time and consideration. H2C looks forward to hearing from you.

### Attachments:

- Past Performance
- Quality Assurance Requirements
- Draft Technical Documentation
  - H-14-113516 Sheet 1-4 Preliminary
  - H-14-113517 Sheet 1-3 Preliminary
  - RPP-SPEC-67201 RA