

# WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

**REVISED 11/13/2023 TO DELETE EXCHANGE/SALE**

## **Design and Fabricate HDH-VSL-00003 – Quality Level CM**

Requisition Number: 24590-CM-MRA-MVA0-00032  
Submit Interest By: 30 November 2023  
Quality Level: CM  
Award Type: FIRM FIXED PRICE – [Awarded as Best Value Source Selection]

### ESTIMATED SCHEDULE

1. Vendor Engineering Complete: *January 2025*
2. Material sub-orders Complete: *June 2025*
3. Fabrication Complete: April 2026

Issue Request for Proposal: *5 January 2024*  
Award and Notice to Proceed: *17 July 2024*

### PROJECT DESCRIPTION AND LOCATION

The Hanford Tank Waste Treatment and Immobilization Plant (WTP) is a complex of radioactive waste treatment processing facilities designed and constructed by Bechtel National, Inc. for the Department of Energy (DOE). The facility will process the Hanford Site tank waste and convert the waste into a stable glass form.

The Project site is located in the 200 East Area of the Hanford Reservation near Richland, Washington, along the Columbia River. The site elevation varies from 662 to 684 feet above mean sea level. Ambient temperature range is -23 degrees F minimum to 113 degrees F maximum, with relative humidity of 5% minimum to 100% maximum. The project design life is 40 years.

### SCOPE OF WORK

Design and fabricate Commercial grade ASME Section VIII, Division 1 pressure vessel with U-Stamp.

Prepare technical documents, provide materials, plant, labor and supplies, fabricate, assemble, inspect, test, pack, and load, brace, block and secure the products on Buyer arranged conveyance in strict compliance with the terms, conditions, specifications, drawings, data sheets and other documents included in or referenced by this requisition.

#### Equipment and Materials Required

- HDH-VSL-00003: Shell & Heads SA-240 304 Stainless Steel, 7-ft Dia., 17-ft Height (TL-TL), Titanium Pipe and 304 Stainless Steel Pipe.

### QUALITY ASSURANCE (QA) REQUIREMENTS

Programmatic Quality Assurance (QA) requirements for subcontracts or purchase orders performed in the WTP Jobsite will be:

<input type="checkbox"/>	Non-Permanent or Temporary Work - Generally no QA program required
<input checked="" type="checkbox"/>	Commercial Quality - Based on DOE Order 414.1C
<input type="checkbox"/>	Nuclear Level Quality - Based on ASME NQA-1 2000

Bechtel may require, as an element of bidder pre-qualification, submission of a representative sample QA Program or Table of Contents copy. For Nuclear Level Quality subcontracts, the successful bidder's QA Program must be approved prior to award of the subcontract or purchase order.

### CODES

- ASME Sec. VIII, Div. 1 – Rules for Construction of Pressure Vessels

- ASME Sec. VIII, Div. 2 – Rules for Construction of Pressure Vessels – Alternative Rules (2004 with 2006 addenda)
- ASME Sec. II – Materials
- ASME Sec. V – Nondestructive Examination
- National Board Inspection Code (NBIC)
- ASME B31.3 – Process Piping, 1996
- ANSI/AWS D1.1/D1.1M – Structural Welding Code – Steel
- ANSI/AWS D1.6 – Structural Welding Code - Stainless Steel

## **STANDARDS**

- PFI Standard ES-24, Pipe Bending Methods, Tolerances, Process and Mechanical Requirements, Pipe Fabrication Institute, Engineering and Fabrication Standard
- AISC M016-89 – Manual of Steel Construction, 9<sup>th</sup> Edition, American Institute of Steel Construction
- ANSI/AISC N690-1994 – Specification for the Design, Fabrication, and Erection of Steel Safety-Related Structures for Nuclear Facilities, American Institute of Steel Construction
- SNT-TC-1A – Recommended Practice No. SNT-TC-1A, American Society for Nondestructive Testing, Inc.

## **BIDDER REGISTRATION AND PRE-QUALIFICATION**

The BNI Acquisition Services Subcontracts/Purchasing group is responsible for collection, evaluation, and internal publication of potential bidders' information for the purpose of pre-qualifying them to bid on any particular subcontract or purchase order.

As part of this process, BNI requires all potential offerors to register at the Supplier and Contractor Portal at: <https://www.Bechtel.com/supplier/>

If your company has registered previously, then only supplemental information should be sent to the Bechtel National, Inc. representative noted below.

Information to be provided by potential bidders must include:

- Dun and Bradstreet Number
- Company Name
- Company Address
- Contact Phone Number
- Contact Person
- Email Address
- Safety Data and Information
- Applicable Work Experience and Projects
- Size of Business (Small, Large)

## **WTP BACKGROUND**

Information about the WTP Project can be found on <http://www.hanfordvitplant.com>

## **CONTACT**

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