

**HANFORD TANK WASTE TREATMENT
AND
IMMOBILIZATION PLANT**



**BIDDER REQUEST FOR INTEREST &
PRE-QUALIFICATION PACKAGE**

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May be exempt from public release under the Freedom of Information Act
(5 U.S.C. 552), exemption number and category: 4.

Commercial/Proprietary

Department of Energy Review required before public release

Name/Org: Jose Velasquez/ P&S Date: 12/28/2023

Guidance (if applicable): N/A

Requisition No. 24590-QL-MRA-PF00-00070

JUMPER FABRICATION

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1.0 Introduction

Bechtel National Inc., herein referred to as Contractor, intends to issue a Request for Proposal (RFP) for a Plant Material Purchase Order for the Hanford Waste Treatment and Immobilization Plant (WTP) project in Richland, WA. Companies must be pre-qualified by Contractor to be included on the bid list. To support the pre-qualification evaluation process, the prime potential bidder (1st tier subcontractor) must provide the requested information and respond to questions within this document. The Experience Statement should include relevant information for both the prime bidder and any planned lower-tier supplier or subcontractor. Additional supporting documentation such as brochures and company profiles may also be submitted.

***Please note that additional supporting documentation will be required as part of the formal RFP process.**

2.0 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.

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

3.0 Scope of Work

Award Type: **Multiple Award Basic Ordering Agreements, fixed price follow-on releases**

Estimated RFP Date: **March 2026**

Fabrication of HLW Process Jumpers - Process Jumper - various sizes of process piping, with special connectors on each end, fabricated to tolerances much tighter than API tolerances, see drawings attached.

The goal of producing posting Request for Interest (RFI) packages online in advance of the anticipated solicitation date is to proactively engage Suppliers that may intend to bid on the scope of work outlined in this request. The WTP project intends to produce specifications and requirements documents for procurement award that closely align with standard commercial applications, for those items that do not have a nuclear safety function. WTP encourages feedback from interested Suppliers relative to things that can reduce delivery duration, item complexity, and unplanned costs from awarded value (examples: Document submittals that are in excess of what would normally be required for commercial application, special tests that duplicate available data, excessive oversight, size of requirements document set, and conflicts in specifications).

For components that have a nuclear safety function, WTP intends to consider both Suppliers with NQA-1-2022 programs and Suppliers that have other QA programs (example: ISO 9001). For cases in which Supplier is not

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NQA-1 compliant, WTP will provide required testing, oversight, and source verification to demonstrate compliance with NQA-1-2022.

We encourage interested Suppliers to contact WTP (per website contact info/directions) to set up meetings with WTP engineering and procurement staff to ask questions, discuss areas that could be adjusted to simplify the procurement process, resulting in a fit for purpose specification that aligns with what the supply chain produces (buy what they make) and recommendations for how best to develop a mutually beneficial collaborative partnership.

3.1 Work to be included:

1. Work performed per ASME B31.3 – current version
2. Purchase piping bulk material
3. Purex, Grayloc connectors (provided by Buyer)
4. Supplier to furnish three bolt flanges (By Supplier)
5. Welding of Piping (Jumper assembly drawings provided by Buyer)
6. Inline components will be provided by Buyer (control valves and specialty)
7. Cold bending of pipe
8. Welding in Valves and inline components. WTP will provide valves and inline components, some valves will have soft seats, temperatures will require monitoring to prevent damage. Buyer to provide direction.
9. Jumper piping will have structural shapes for lifting and balancing of the assembly to be provided by the supplier
10. Material Testing Q materials
 - a) Independent testing of bulk materials for full physical and chemical properties to associated ASTMs utilizing laboratories accredited to ISO/IEC 17025. Testing will result in Certified Material Test Reports Confirming MTRs received with purchased materials. Sample lot sizes tables for testing will be provided.
 - b) Independent testing of weld rod materials for full chemical properties to associated ASTMs utilizing laboratories accredited to ISO/IEC 17025.
 - c) Impact testing for piping, weld deposit and heat affected zone
 - d) Fittings per ASME B16.9, MSS SP-95, and MSS SP-97
 - e) Pressure (hydrostatic and pneumatic) testing of spools as directed by Buyer
11. Material Inspections
 - a) All measuring and testing equipment utilized shall be calibrated by an accredited ISO/IEC 17025 laboratory.
 - b) Wall thickness measurements shall be documented and submitted to the Buyer
 - c) NDE of welds (RT), Weld repair, post weld heat treatment results shall be submitted to the Buyer
 - d) ASME Y14.5 – Dimensioning and Tolerancing

12. Special requirements

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- a) Jumpers are build to print.
- b) Fabricate entire jumper prior -final nozzle location provided by Buyer.
- c) Supplier to complete fabrication of jumper based on final nozzle as-built location provided by Buyer, validate balance of jumper, confirm set jumper stays on location without hook.
- d) Stored in shop up to twelve months pending Buyer's final nozzle locations.
- e) Fabricator to ship completed jumpers with final adjustment made by Buyer.
- f) Supplier assembles Purex connector.
- g) RT film retention required.
- h) Temperature controlled area for fabrication required.

3.2 Equipment and Materials Required:

Supplier shall provide all equipment and materials necessary to accomplish work in section above
Material/equipment necessary for balancing and lifting
Jigs for alignment and fabrication

3.3 Codes:

- ASME B31.3
- ASME Y14.5 – Dimensioning and Tolerancing

3.4 Standards:

- Various ASME and ASTMs for piping components and materials
- ASNT SNT-TC-1A, *Recommended Practice No. SNT-TC-1A Personnel Qualification and Certification in Nondestructive Testing*
- ASME B16.9, MSS SP-95, and MSS SP-97

Please note that this solicitation may result in material procurements and proposals greater than \$10,000 and must comply with **FAR 52.225-11 Buy American Act – Construction Materials Under Trade Agreements** (SEP 2010). If you cannot comply or foresee any issues with compliance, please provide a detailed explanation.

If your company is **interested** in this solicitation, **proceed to Section 4.0** and complete the sections below. The BNI Acquisition Services Purchasing group is responsible for collection, evaluation, and internal publication of potential bidders' information for the purpose of pre-qualification for all solicitations.

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4.0 Response Submittal

4.1 Submission Due Date: **7/14/2025**

Submission Method: Submissions must be received no later than the due date provided above to the Purchasing Representative, **Andrea Riste**, via email at adriste@bechtel.us. For questions, call (509) 430-9055.

5.0 Pre-Selection Criteria

5.1 Company Response

Prime Subcontractor Company Name:	
Address:	
Address (cont):	
Pre-qualification Contact Name:	
Phone Number:	
E-mail Address:	
DUNS No. (Dun & Bradstreet):	

5.2 North American Industry Classification System Code (NAICS)

The NAICS (North American Industry Classification System code for this work is **332996**. The SBA size standard for this code is **550 employees**. For pre-qualification purposes, you are a small business if your company's number of employees does not exceed 550 employees.

Business Size Classification
(according to U.S. Small Business Administration Criteria)

- ☐ Small
- ☐ Small Disadvantaged Business
- ☐ Woman Owned Small Business
- ☐ HUBZone Business
- ☐ Veteran-Owned Small Business Concern
- ☐ Service-Disabled Veteran-Owned Small Business Concern.
- ☐ N/A – Registered as a Large Business

5.3 Quality Assurance Requirements Program

Programmatic Quality Assurance (QA) requirements for this purchase order will be in accordance with Supplier QA program, please mark as applicable:

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	Commercial Quality - Based on DOE Order 414.1C
	Nuclear Level Quality - Based on ASME NQA-1 2022

5.3.1 Does your Company have a written Quality Assurance Program?

☐ Yes ☐ No

5.3.2 Which QA standard(s) does this program meet? _____

☐ DOE/RW/0333P ☐ ASME NQA-1 ☐ ASME Section VIII ☐ ISO-9000 ☐ OTHER

5.3.3 If **"OTHER"** is selected above, please furnish a copy of its QA Program Table of Contents and a **brief summary identifying each of the requirements listed below**. The level of rigor applied to the elements shall be commensurate with the risks associated with the Work.

- A description of the organizational structure, functional responsibilities, levels of authority, and interfaces for those managing, performing, and assessing the Work.
- Personnel Training and Qualifications
- Quality Improvement
- Control of Documents and Records
- Work Processes
- Design
- Procurement
- Product Identification and Traceability
- Inspection and Acceptance Testing
- Control of the Testing Equipment
- Control of Non-Conforming Product
- Corrective and Preventative Actions
- Handling, Storage and Shipping Procedures
- Management Assessment
- Independent Assessment

Your company has the option to submit their full Quality Assurance Plan with this interest.

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5.4 Commercial Data

Potential bidders are required to register on the **Bechtel Supplier and Contractor Portal:**
<https://www.Bechtel.com/supplier/> in order to be considered.

5.4.1 Date your company registered or updated its information on the Portal?

Date Updated: _____

5.4.2 Rough Order of Magnitude for Scope of Work (USD): \$ _____

5.4.3 Estimated Delivery Schedule:

- | | | |
|------|-----------------------------|-----------|
| i. | Engineering/Design: _____ | weeks ARO |
| ii. | Material Procurement: _____ | weeks ARO |
| iii. | Fabrication: _____ | weeks ARO |
| iv. | Delivery: _____ | weeks ARO |

5.4.4 Long lead items to be aware of? (if yes, please specify

5.4.5 Does your company have a suggested alternate offering/product that offers an improvement, more cost effective, or offers shorter delivery

(i.e. “buy what you make”)?

☐ No, we will supply an identical or similar product.

☐ Yes, we have an alternate offering. If so, please describe below or provide as an attachment.

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5.4.6 What risks do you foresee with this procurement that BNI should be aware of and possibly help mitigate?

5.5 Technical Criteria

5.5.1 Direct Relevant Experience Documentation: Provide a reference list of example projects over the last ten years, on the included Experience Statement, that demonstrate direct relevant project experience to support each “yes” response. Example projects should be detailed as to both the technical scope of the project and your participation in the project.

6.0 Experience Statement

Column completion notes for the below, Experience Statement, to be completed by the Prime contractor:

- 1) Customer Name, Address, Contact Name and Phone No.- We may contact for references as needed.
- 2) Work Description and Location- Describe work scope and location and indicate if prime or subcontract.
- 3) Original/ Final Contract Value- Original award value and final closeout contract value.
- 4) Commencement/Completion Dates- Provide starting date and actual completion (or forecast if still in progress) by month/year format (e.g., Jan 2006/Sept 2007)

Customer Name, Address, Contact Name and Phone No.	Work Description and Location	Original/Final Contract Values	Commence/ Complete Dates

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COMPANY NAME: _____



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Pre-Qualification Document Checklist

Companies are encouraged to use this checklist to ensure their submittal is complete.

- ☐ Interest & Prequalification Criteria and Response Package (this document)
- ☐ QA Program Table of Contents and summary *or* a copy of QA Plan
- ☐ Additional supporting documentation such as brochures and company profiles.
- ☐ Direct Relevant Experience Documentation (included in this document or provided as attachment)

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