

**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-MKH0-00TBD**

**HLW C5V Safe Change HEPA Filter  
Housings**

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## BIDDER REQUEST FOR INTEREST & PREQUALIFICATION CRITERIA AND RESPONSE

### 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 (1<sup>st</sup> 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: **Firm Fixed Price Purchase Order with Economic Price Adjustment**

Estimated RFP Date: **April 2026**

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 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**

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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:

Provide design and qualification of a reduced height 4 pack safe change cabinet style HEPA filter housings utilizing radial flow HEPA filters including the isolation and balancing dampers, the inlet and outlet ductwork transitions with injection and sampling manifolds per ASME AG-1-2019.

Provide Commercial Grade Dedication procedure(s), plan(s), survey plans and source verification plans for BUYER review and permission to proceed status code prior to the SELLER's implementation.

Provide the environmental and seismic qualifications for the safe change HEPA filter housing design.

Provide fabrication, assembly, welding, and NDE inspections for a prototype safe change housings, the ductwork including the sampling and injection manifolds.

Provide all required **prototype** testing per ASME AG-1.

Testing to include:

- AG-1 HA-5000 Inspections
- AG-1 HA-5000 Testing – including differential pressure testing, air flow distribution testing, air-aerosol mixing testing, and sample manifold testing
- Structural Capability Test in accordance with HA-5500
- Pressure Boundary Leakage Testing in accordance with HA-5300
- Mid-Pan To Housing Leakage Test in accordance with HA-5400
- Airflow Distribution Test in accordance with ASME AG-1 HA-5600 and TA-4632
- Air-Aerosol Mixing Uniformity Tests aerosol injection manifold design in accordance with AG-1 HA-5700
- Sampling Manifold Testing in accordance with AG-1 HA-5800
- Differential Pressure Test in accordance with AG-1 TA-4631
- Seismic Qualification Test in accordance with AG-1 AA-4350
- Perform pre-seismic and post seismic In-Place Leak Tests per AG-1 TA-4634

Upon Buyer approval of prototype testing, Seller to perform fabrication, and assembly of **12 additional production** HEPA filter housings including the isolation and balancing dampers, the

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inlet and outlet ductwork transitions with injection and sampling manifolds.

After fabrication and assembly, and prior to shipment, the SELLER shall perform shop tests on each completed filter housing assembly (production unit) to:

- Demonstrate conformance with all required ASME AG-1 Article HA-5000 tests and inspections, including Owner-specified Article HA-5400.
- Articles HA-5600, HA-5700, and HA-5800 are not required to be performed on production units.

### 3.2 Equipment and Materials Required:

- **Quantity of 13** – C5V safe change HEPA filter housings including:
  - Ductwork transitions with injection manifold and sampling manifolds per ASME AG-1 Article HA.

### 3.3 Codes/Standards:

- ASME AG-1-2019, Code on Nuclear Air & Gas Treatment, as tailored in **24590-HLW-PL-NS-23-0001** “Safety Design Strategy for the High-Level Waste Facility”
- ASME N509-2002, Nuclear Power Plant Air-Cleaning Units and Components
- ANSI/ASME B18.2.1-1996 with the ASME B18.2.1a-1999 Addenda, Square and Hex Bolts and Screws (Inch Series)
- ASME B30.20, Below the Hook Lifting Devices
- ASME B&PVC, Section IX, Welding and Brazing Qualification
- ASME NQA-1-2022, Quality Assurance Requirements for Nuclear Facilities
- ASNT SNT-TC-1A, Recommended Practice for Personnel Qualification and Certification in Nondestructive Testing
- AWS D1.1, Structural Welding Code, Steel
- AWS D1.3, Structural Welding Code, Sheet Steel
- AWS D1.6, Structural Welding Code, Stainless Steel
- AWS D9.1, Sheet Metal Welding Code
- IEEE 323, IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations

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### 4.0 Response Submittal

#### 4.1 Submission Due Date: 11/15/2025

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](mailto: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 **333413**. The SBA size standard for this code is **500**. For pre-qualification purposes, you are a small business if your company's number of employees does not exceed **500** 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:

|  |  |
|--|--|
|  | Commercial Quality - Based on DOE Order 414.1C |
|--|--|

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|  |  |
|--|--|
|  | Nuclear Level Quality - Based on ASME NQA-1 2022 |
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**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.

### 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: \_\_\_\_\_

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**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)

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**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?

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### 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

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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,<br>Contact Name and Phone No. | Work Description and Location | Original/Final<br>Contract<br>Values | Commence/<br>Complete Dates |
|---|-------------------------------|--------------------------------------|-----------------------------|
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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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