

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-MACS-00TBD

HLW C5V Exhaust Fans



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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 (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: **Fixed Price Purchase Order with Economic Price Adjustment**

Estimated RFP Date: **MAY 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).

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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 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:

Fabrication, assembly, testing, qualification, and shipping of **Quantity 4 – C5V Exhaust Fans Assemblies**, includes motors, controls, instrumentation, and flexible connectors. (See drawing)

- Lift eye calculation
- Gasketing evaluation
- Environmental Qualification of fans, motors, instruments, and electrical accessories.
- Seismic Qualification of fans assemblies, motors, instruments, and all accessories.
- Non-Destructive Examination (NDE)-
 - All pressure boundary parts made by casting shall be demonstrated to be surface-defect free by penetrant examination.
 - Welding inspections in accordance with AG-1 AA-6300. As a minimum all welds shall be 100% Visual Inspection (VT).
- Performance Testing - at 60%, 80%, 100%, and 110% design speed at design conditions specified on the datasheets.
- Sound Rating Testing - applies to operation of the equipment at rated load or full capacity, and during restart and shut down.
- Vibration Testing - shall be checked and reported at 10% increments of full speed fan tests.
- Leak testing - in accordance with AG-1, BA-5142.
- Instrumentation and controls testing.
- Motor and electrical component testing.

3.2 Equipment and Materials Required:

Quantity 4 – C5V Exhaust Fans Assemblies, includes motors, controls, instrumentation, and flexible connectors.

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- Fan Design Conditions & Configuration -
 - Hot Operations 39,060 ACFM @ 120°F Total SP 44.6 in WG
 - AMCA Drive Arrangement = 8; Fan Scroll Type = SWSI
 - Rotation = CCW; AMCA Discharge = Upblast
 - Stainless Steel construction

3.3 Codes:

- ASME AG-1- 2019, Code on Nuclear Air and Gas Treatment
- ASME B&PVC, Section V – Nondestructive Examination
- ASME B&PVC, Section IX - Qualification Standard for Welding and Brazing
- ASME NQA-1-2022, Quality Assurance Program Requirements for Nuclear Facility Applications
- 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
- OSHA 29 CFR 1910, Occupational Safety and Health Standards
 - 2.1.10.1 Subpart O, Machinery and Machine Guarding
 - 2.1.10.2 Subpart S, Electrical
- NFPA 70-2023, National Electrical Code
- NFPA 90A-2021, Standard for the Installation of Air-Conditioning and Ventilating Systems

3.4 Standards:

- ABMA 9, Load Ratings and Fatigue Life for Ball Bearings
- ABMA 11, Load Ratings and Fatigue Life for Roller Bearings
- AMCA 99-2404, Drive Arrangement for Centrifugal Fans
- AMCA 99-2406, Designations for Rotation and Discharge of Centrifugal Fans
- AMCA 210, Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating
- AMCA 300, Reverberant Room Methods for Sound Testing of Fans
- AMCA 301, Methods for Calculating Fan Sound Ratings from Laboratory Test Data
- ANSI / API Std 670, Machinery Protection Systems

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- ASNT-SNT-TC-1A, ANST Recommended Practice - Personnel Qualification and Certification in Nondestructive Testing
- ASTM A36, Standard Specification for Structural Carbon Steel
- IEEE 1050, IEEE Guide for Instrumentation and Control Equipment Grounding in Generating Stations
- IEEE 1202, IEEE Standard for Flame-Propagation Testing of Wire and Cable
- ISO 3744, Acoustics - Determination of Sound Power Levels and Sound Energy Levels of Noise Sources Using Sound Pressure - Engineering Methods for an Essentially Free Field over a Reflecting Plane
- NEMA 250, Enclosures for Electrical Equipment
- NEMA ICS 6, Enclosures
- NEMA MG 1, Motors and Generators

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 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.

4.0 Response Submittal

4.1 Submission Due Date: **10/25/2025**

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:	
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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 **334313**. 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)

Check all that apply	
<input type="checkbox"/>	Small
<input type="checkbox"/>	Small Disadvantaged Business
<input type="checkbox"/>	Woman Owned Small Business
<input type="checkbox"/>	HUBZone Business
<input type="checkbox"/>	Veteran-Owned Small Business Concern
<input type="checkbox"/>	Service-Disabled Veteran-Owned Small Business Concern.
<input type="checkbox"/>	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:

<input type="checkbox"/>	Commercial Quality - Based on DOE Order 414.1C
<input type="checkbox"/>	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 ☐

5.3.1 Which QA standard(s) does this program meet:

DOE/RW/0333P		ASME		NQA-1		ASME Section VIII		ISO-9000		OTHER	
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5.3.2 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/> to be considered.

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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 \$ _____

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.

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 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/Fi nal Contract Values	Commence/ Complete Dates

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CRITERIA AND RESPONSE**

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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