

**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-CM-MRA-JL10-10001**

**RADAR LEVEL TRANSMITTERS  
(Guided & Non-Guided, Non-Contact)**

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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: \*\*

Estimated RFP Date: ***Pending design/schedule determination – seeking qualified vendors***

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).

**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.**

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### CRITERIA AND RESPONSE

#### 3.1 Scope of Work

These Commercial Grade Radar Level Transmitters (Transmitters) shall provide non-contact level for vessels and sumps, with the contents being liquid, solid, or slurry (mixture). These are Commercial Grade devices.

#### 3.2 Configuration

- Transmitters are non-contact transmitters.
- Transmitter may be direct tank mounted, with cone or stilling well
- Transmitter may be remote mounted with wave guide, to tank nozzle with cone, or stilling well.
- Remote Transmitters may have isolation valves, purge flanges, polypropylene windows and short spool pieces to protect the transmitter. See Wave Guide Details attached.
- Waveguides (316 SS) are made of 1 ½” Sch. 40 pipe and may vary in length up to 100 feet. These may have several bends, up to eight, with some out of plane bends. One of our more challenging waveguides and stilling well configurations are depicted in attachment Wave Guide ISO 1.
- Stilling Well fabrication (316 SS), see Wave Guide ISO 1, Detail 2 for typical stilling well design for sump.
- Transmitter shall send a 4-20mA signal minimum.

#### 3.3 Performance

The accuracy shall be  $\pm 0.5$  in. as a minimum, of the true level unless specified otherwise. Repeatability must be  $< 0.5 \times$  error (accuracy limits stated above) of the measurement.

Suppliers are expected to validate performance through modeling, testing, or experience.

#### 3.4 Waveguide Application Experience

The Supplier shall have past experiences in supplying radar level transmitters in conjunction with radar guide tubes and stilling wells.

#### 3.5 Quantities

Radar direct mounted to vessels

- With Stilling Wells: 9
- With Cones: 2

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## BIDDER REQUEST FOR INTEREST & PREQUALIFICATION

### CRITERIA AND RESPONSE

Radar Wave Guide to Vessel and Sumps

- Guide to Stilling Wells: 43
- Guide to Radar Cones: 2

Q Radar Wave Guide

- Guide to Vessel with Stilling Well: 4

### 3.6 Attachments

Sampling of details and isometrics below:

- Wave Guide to Sump with Stilling Well Detail
- Wave Guide to Vessel with Cone Detail
- Wave Guide to Vessel with Stilling Well Detail
- Wave Guide ISO 1
- Wave Guide ISO 2

### 3.7 Codes and Standards

- ASME B31.3: Process Piping
- NFPA 70-2023: National Electrical Code
- ISA 50.00.01: Compatibility of Analog Signals for Electronic Industrial Process Instruments
- NEMA ICS 6: Industrial Control and Systems: Enclosures
- OSHA 29 CFR 1910-Subpart S: Occupational Safety and Health Administration - Electrical
- NEC Article 110: Requirements for Electrical Installations
- ASME B16.5: Pipe Flanges and Flanged Fittings
- ISO/IEC 17025: General Requirements for the Competence of Testing and Calibration Laboratories

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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**BIDDER REQUEST FOR INTEREST & PREQUALIFICATION  
CRITERIA AND RESPONSE**

**4.0 Response Submittal**

**4.1 Submission Due Date: 6/20/2026**

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 **334513**. The SBA size standard for this code is **500 employees**. 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:

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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.

**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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## BIDDER REQUEST FOR INTEREST & PREQUALIFICATION CRITERIA AND RESPONSE

**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, Contact Name and Phone No.	Work Description and Location	Original/Final Contract Values	Commence/ 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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