

# WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

## Process Gauges – Pressure, Temperature, and DP Indicators

Requisition Number: 24590-CM-MRA-JP01-00009  
Submit Interest By: March 8, 2018  
Quality Level: CM  
Award Type: Firm Fixed Price

**ESTIMATED SCHEDULE** November 2018

Issue Request for Proposal: March 28, 2018  
Award and Notice to Proceed: June 2018

### 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

This RFI is to solicit interest on Pressure and Differential Pressure Gauges, Thermometer, and DP Flow Indicators for Direct Feed Low Active Waste Facility at WTP.

- All process gauges will be connected to process pipping and used for local indication only.
- All process gauges are commercial catalog products fabricated for BUYER specified process conditions.
- General process pressure and temperature conditions varies between the ranges of 0 – 200 psi-g and 0-300 degree F.
- Process gauges will be used in gas and liquid process applications.
- All pressure gauge bodies shall be 316 SST material, the dial faces shall be 4 ½ inch, and the end connections ½ inch NPT(M) bottom connection.
- All differential pressure gauge bodies shall be 316 SST material, the dial faces shall be liquid filled with dial faces of 4 ½ inch, and the end connections of ¼ inch NPT(F).
- All thermometers shall be supplied with dials shall be liquid filled with dial faces of 5 inch, and ½ inch NPT(M) end connections. Thermometers shall be supplied with thermowells constructed per instrument datasheets.
- Pressure and differential pressure gauges shall be constructed in accordance with ASME B40.100. The accuracy shall be +/- 0.5% of full scale.
- Thermometers and thermowells shall be constructed in accordance with ASME B40.200. The accuracy shall be +/- 1% of full scale or better.
- A flow sight indicator flanged to the process piping with full view of flow and bulls eye body type will also be used in one liquid service application.

## QUALITY ASSURANCE (QA) REQUIREMENTS

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

<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 and STANDARDS

1. ASME B31.3 (1996): Process Piping
2. ASME B16.5 Piping Flanges and Flanged Fittings
3. ASME B40.100 Pressure Gauges and Gauge Attachments (applicable section B40.1, B40.2, B40.5)
4. ASME B40.200: Thermometers, Direct Reading and Remote Reading (applicable section B40.3, B40.9)
5. ASME PTC 19.3 TW: Thermowells Performance Test Codes.

### 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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