

WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

Cathodic Protection System Technical Support

Requisition Number: 24590-CM-SRA-EQ00-00001
Submit Interest By: May 22, 2023
Quality Level: CM
Award Type: FIRM FIXED PRICE and FIXED UNIT RATE

ESTIMATED SCHEDULE 12 to 18 months

Issue Request for Proposal: May 24, 2023
Award and Notice to Proceed: July 2023

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

As part of the WTP facilities a cathodic protection electrical (CPE) system is installed that provides the elimination or mitigation of corrosion for protected underground metallic piping. The system has 240 installed anodes of which approximately 25% (41 at this time) have failed prematurely. In support of understanding the failure mechanism and replace the failed anodes with new ones the SUBCONTRACTOR will perform all the work necessary to provide the following:

FAILURE ANALYSIS ON FAILED ANODES:

SUBCONTRACTOR shall excavate at least two failed anodes and perform a failure analysis to provide CONTRACTOR with an understanding why they failed and the potential for failure of remaining anodes. SUBCONTRACTOR will provide a plan for excavation and inspection of failed anodes. The plan will also provide justification for excavation of any additional anodes SUBCONTRACTOR considers necessary to support the failure analysis. In addition, SUBCONTRACTOR will prepare a final report that provides the results of inspection of failed anodes and recommendations for minimizing or preventing premature failure.

INSTALL NEW ANODES:

SUBCONTRACT shall install new anodes to replace existing failed anodes and install any new that may be necessary to enhance the systems capability and coverage as requested by CONTRACTOR. Each vertical anode hole shall be installed at a location adjacent to the exiting failed anode as directed by CONTRACTOR. The location of existing anodes and failed anodes is shown in Attachment D-1 Figure 1, Location of Failed Anodes. Each vertical anode hole shall be constructed per the design requirements provided in Exhibit F drawings using nondestructive excavation as described in procedure 24590-WTP-GPP-CON-3202, Excavation and Backfill, of Exhibit E. Existing failed anodes will be abandoned in place and do not require removal unless designated in support of failure analysis. The quantity and locations of any new additional anodes used to enhance the system capability will be at the direction of the CONTRACTOR.

Equipment and Materials Required

Vacuum excavator
All temporary materials and consumables
New material for all permanent plant materials stipulated.

QUALITY ASSURANCE (QA) REQUIREMENTS

All work performed under this task is quality level CM. SUBCONTRACTOR shall work under the CONTRACTORS Quality Program.

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

Commercial Quality - Based on DOE Order 414.1C

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

- WAC 173-303-640 (3)
- NACE International Standard Practice SP0169-2013, Control of External Corrosion on Underground or Submerged Metallic Piping Systems
- NACE International Standard Test Method TM0497-2002, Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Piping Systems

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

Bechtel National, Inc.
450 Hills Street
Richland, WA 99354
Attn: Dheyaa Hammadi
Phone: 509-827-2844
Email Address: dhhammad@bechtel.com
Mailstop: MS10-E