

WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

Fabrication and Delivery of Cold Commissioning Chemical Simulant

Requisition Number: 24590-QL-FMR-AELC-00001
Submit Interest By: March 2, 2018
Quality Level: QL
Award Type: Fixed Unit Rate

ESTIMATED SCHEDULE

Notice to proceed September 2020 First batch of simulant delivered September 2021, deliveries continue as needed through December 2021

Issue Request for Proposal: June 2020
Award and Notice to Proceed: September 2020

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

Prior to processing tank waste WTP will enter the commissioning phase. During commissioning WTP will undergo a series of tests using chemical simulant. The simulant will be introduced into the vitrification process at the Low Activity Waste (LAW) facility within the WTP footprint. A specific phase of commissioning known as Cold Commissioning (CC) is a period in which WTP will process a chemical simulant representative of the tank farm waste (without the radiological hazards).

This request for interest is for the fabrication and delivery of the CC chemical simulant. Although the CC simulant selection process has not concluded, WTP has narrowed the candidate recipes down to two and these are currently undergoing final testing. Both simulant candidates contain approximately 15 constituents consisting of: Water, Sodium Hydroxide, Aluminum Nitrate, and Sodium Nitrite as the primary constituents. The exact formula and specifications will be provided in the actual request for proposal.

The total amount of simulant needed to complete CC will be between 600,000 to 800,000 gallons. There are several variables which will determine the actual amount of simulant needed to complete CC. The CC simulant will be needed over a 4-month period during calendar year 2021. As LAW processing will be conducted in batches (~9,100 gallons) delivery will also be required in batches; however, the batch can be delivered in smaller increments over a ~20-hour period. Simulant storage at WTP/LAW will be limited so "just in time" delivery will be required. The delivery schedule will fluctuate based on CC testing results, and close communication with the LAW CC simulant point of contact will be required.

Options under considered for simulant fabrication and delivery include: local fabrication with local delivery, fabrication at a vendor facility with greater distance of travel for delivery and fabrication at a vendor's facility with the provision of local storage providing a short delivery distance to WTP.

Equipment and Materials Required

QUALITY ASSURANCE (QA) REQUIREMENTS

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

<input type="checkbox"/>	Non-Permanent or Temporary Work - Generally no QA program required
<input type="checkbox"/>	Commercial Quality - Based on DOE Order 414.1C
<input checked="" 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

STANDARDS

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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