WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

LAW CANISTER FIXATIVE TESTING

Requisition Number:	24590-CM-SRA-HDYR-00001
Submit Interest By:	March 31, 2021
Quality Level:	CM
Award Type:	Firm Fixed Price
Issue Request for Proposal:	April 15, 2021
Award and Notice to Proceed:	May 13, 2021

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

SUBCONTRACTOR will provide all material, tools, and labor to prove performance of CC Wet H and CC Fix coatings. Testing will involve application by two different methods at two different temperatures on various plate geometries and curvatures. Testing will involve two sets of 24 test coupons of varying surface geometries; one set tested with fixative applied by roller and the other set with fixative applied by low pressure, low volume spray. Each set of 24 coupons will have half established as the control group coated at room temperature (68-78◦F) and the other half coated an elevated temperature of 220 (+/-10) ◦F. The intent of this scope of work is to test the selected two step coating system, CC Wet H and CC Fix for the attributes listed below:

1. Fixative Specifics: The Safety data sheets of the CC Wet H and CC Fix are provided in Attachment D- CC Wet H and CC Fix Safety Data Sheets.

2.Thermal Threshold: Both products upon application and thereafter must withstand elevated surface temperatures during application on the 304L SS canister. The expected surface temperature of ILAW canisters is 212F, bounded by 300F.

3. Handling and Impact Resistance: Both products after application must withstand the canister handling process which includes interface with grapples, the canister transporter and swabbing operation. The canister design and associated grapple design are provided in the drawings of Exhibit F.

4. Surface Adhesion on Variable Surface Profile: The products once applied to the surface of the ILAW canister, must remain intact on flat and curved surfaces. The profile of the ILAW canister is provided in the drawings of Exhibit F.

5. Application Method: Both products are to be tested for application using rollers as well as low pressure spraying systems.

6. Swabbing: The fixative must pass the loose contamination swabbing test post application.

<u>Materials Required</u>
Test Coupons

QUALITY ASSURANCE (QA) REQUIREMENTS

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

	Non-Permanent or Temporary Work - Generally no QA program required
X	Commercial Quality - Based on DOE Order 414.1C
	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

N/A – None are required in support of the testing.

STANDARDS

N/A – None are required in support of the testing.

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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