

WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

24590-CM-MRA-MJKG-00006 Crane Refurbishment

Requisition Number: 24590-CM-MRA-MJKG-00006
Submit Interest By: 20 November 2023
Quality Level: CM
Award Type: Firm, Fixed Price

ESTIMATED SCHEDULE

Issue Request for Proposal: January 2024
Award and Notice to Proceed: May 2024
Required on site: January/February 2025

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 scope of work covers the refurbishment and retrofitting of Crane Manufacturers Association of America (CMAA) 74 top running cranes, utilizing an under running trolley hoist, under component tag numbers (CTN): 24590-HLW-MJ-HSH-CRN-00010 and 24590-HLW-MJ-HSH-CRN-00012. These two 5-ton cranes were received around 2006 and have been stored since that time. They have never been installed, but the cranes display wear and must be refurbished and tested prior to the scheduled on-site date of February 15, 2025.

The main focus of the scope of work is removing paint from the entirety of the cranes and recoating them, as well as removing surface corrosion that may be present and testing the cranes to ensure proper function when reassembled. In addition, for ancillary components, many National Electrical Code (NEC) deficiencies must be addressed. Examples include, but are not limited to, liquidtight flexible metal conduit that is inadequately supported and lacks Underwriters Laboratories, Inc. (UL) listing, and wiring that is not properly grounded.

The cranes to be refurbished will be supplied by Bechtel as government furnished equipment (GFE) and the work will take place at the bidder's location after award.

Equipment and Materials Required

Two 5-ton cranes (CTN's 24590-HLW-MJ-HSH-CRN-00010 and 24590-HLW-MJ-HSH-CRN-00012) and ancillary equipment will be provided by Bechtel. The bidder is expected to strip all paint from the cranes and repaint them as well as test the equipment and replace all components that have deteriorated from the original material condition or are found to be non-conforming to the original design integrity, design tolerances, applicable code requirements, or the requirements of the equipment specification.

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 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

- Code of Federal Regulations (CFR)
 - OSHA 29 CFR 1910.179, *Overhead and Gantry Cranes*
- National Fire Protection Association (NFPA)
 - NFPA 70-1999, *National Electrical Code*
 - Article 90, "Introduction"
 - Article 100, "Definitions"
 - Article 110, "General Requirements for Electrical Installations"
 - Article 250, "Grounding and Bonding"
 - Article 350, "Liquidtight Flexible Metal Conduit (LFMC)"
 - Article 430, "Motors, Motors Circuits, & Controllers"
 - Article 610, "Cranes and Hoists"

STANDARDS

- American National Standards Institute (ANSI)
 - ANSI/ASME Standard Y14 series, *Drafting Standards*
- American Society of Mechanical Engineers (ASME)
 - B30.10, *Hooks*
 - B30.16, *Overhead Underhung and Stationary Hoists*
 - B30.17, *Cranes and Monorails (With Underhung Trolley or Bridge)*
 - B30.30, *Ropes*
- American Society for Nondestructive Testing (ASNT)
 - SNT-TC-1A, *Recommended Practice, Personnel Qualification and Certification in Nondestructive Testing*
- American Society for Testing and Materials (ASTM)
 - A36, *Standard Specification for Carbon Structural Steel*
 - A276, *Standard Specification for Stainless Steel Bars and Shapes*
 - A992, *Standard Specification for Structural Steel Shapes*
 - D4227, *Standard Practice for Qualification of Coating Applicators for Application of Coatings to Concrete Surfaces*
 - D4228, *Standard Practice for Qualification of Coating Applicators for Application of Coatings to Steel Surfaces*
 - E165, *Standard Practice for Liquid Penetrant Testing for General Industry*
 - E709, *Standard Guide for Magnetic Particle Testing*
- American Welding Society (AWS)
 - AWS D1.1/D1.1M, *Structural Welding – Steel*
 - AWS D14.1/D14.1M, *Specification for Welding of Industrial and Mill Cranes and Other Material Handling Equipment*
 - AWS QC1, *Standard for AWS Certification of Welding Inspectors*
- Crane Manufacturers Association of America (CMAA)
 - CMAA 74-200, *Specifications for Top Running & Under Running Single Girder Electric Traveling Cranes Utilizing Under Running Trolley Hoist*
- National Electrical Manufacturers Association (NEMA)
 - ICS 8, *Industrial Control and Systems Crane and Hoist Controllers*
- Society of Automotive Engineers (SAE)
 - AMS-STD-595A, *Colors Used in Government Procurement*
- Underwriters Laboratories, Inc (UL)
 - UL 508A, *Industrial Control Panels*

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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