



## WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

### *High Level Waste (HLW) Facility HVAC System*

Request for Proposal No.: 24590-CM-SRA-MDHM-00009  
Submit Interest By: May 09, 2025  
Quality Level: Commercial ("CM") Quality  
Award Type: Firm Fixed Price / Fixed Unit Price

#### **ESTIMATED SCHEDULE**

Issue Request for Proposal: June 2025  
Award and Notice to Proceed: August 2025

#### **PROJECT DESCRIPTION AND LOCATION**

The Hanford Tank Waste Treatment and Immobilization Plant (WTP) is a complex of radioactive waste treatment processing facilities, located in the 200 East Area of the Hanford Reservation near Richland, Washington, being 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.

#### **SCOPE OF WORK**

SUBCONTRACTOR's work shall include, but shall not be limited to, the design, procurement and installation of all ductwork materials, supports, hangers, expansions joints for thermal expansion and/or stress reduction, inline components identified on the data sheets and orthographic drawings, the seismic qualification of those items and components to furnish, install, and test the HVAC ductwork systems and inline components in the HLW Facility., shop drawings and related schedules and budgets, testing, technical support services, transportation, documentation and other work necessary.

SUBCONTRACTOR is expected to self-perform all design activities and field execution of work including fabrication of ductwork and supports. SUBCONTRACTOR may subcontract design activities to a lower-tier qualified engineering firm with prior approval from CONTRACTOR.

Performance of this Scope of Work will be executed in two (2) distinct parts consisting of:

1. Design:
  - a. Full and complete design resulting in issuance of Issued for Fabrication (IFF) document package for the procurement and fabrication of structural supports, ductwork, inline components and miscellaneous ductwork accessories associated with described installation work scopes/packages.
  - b. Engineering support for CONTRACTOR/SUBCONTRACTOR to validate installed (completeness) commodities by others for design evaluation/development by SUBCONTRACTOR.
  - c. Field verifications of installed and future installation of ventilation system in the HLW.
  - d. Issue "Issued for Installation" (IFI) erection drawings/work packages.
  - e. Provide all necessary materials, services, detailed shop drawings, labor, and tools (for fabrication).
  - f. Provide consumables, equipment, supervision, technical support, quality control, and all incidentals necessary to fabricate HVAC and ventilation exhaust systems.
  - g. Provide seismic qualification for all Seismic Category III & IV ductwork, supports, and inline components supplied by.
  - h. Provide coordination of all Seismic Category III & IV ductwork supports with CONTRACTOR Plant Design personnel for inclusion into CONTRACTOR's 3-D model.
2. Installation: SUBCONTRACTOR shall construct the HVAC System in accordance with the CONTRACTOR approved design, and SUBCONTRACTOR approved Issue for Installation (IFI) drawings/work Package.
  - a. Supply all construction equipment including non-powered cranes, man lifts, tools, air compressors, generators, consumables, safety supplies/equipment and monitoring equipment for job-site work.
  - b. Provide all equipment and labor necessary for lifting and transporting materials from the building location to the point of installation. SUBCONTRACTOR shall also be responsible for obtaining confined-space entry permits and provide personnel and monitoring equipment.
  - c. Physical installation of all ductworks, dampers, inline components, miscellaneous ductwork accessories and insulation shown on IFI erection drawings/work packages.

- d. Perform HVAC ductwork structural capability testing and/or leak testing.
- e. Provide consumables, equipment, supervision, quality control for all incidentals necessary to install HVAC and ventilation exhaust galvanized systems.
- f. Furnish and install quantities of ductwork, supports, and miscellaneous items. Note, pounds of supports include those designed by both CONTRACTOR and SUBCONTRACTOR with procurement and installation responsibility.
- g. Provide temporary facilities (site office trailers, storage trailers, etc.), and construction equipment (equipment for receiving and transporting of materials, non-powered cranes, man lifts, etc.) as needed to complete the work.
- h. Provide all resources e.g., material, equipment and labor, quality controls necessary to fabricate duct systems and components for executing an off-site fabrication facility for the fabrication of all duct, duct spools, duct joints, and supports. Provide for transport of all fabricated material to the jobsite laydown areas.

Major Ventilation Systems: CONTRACTOR estimates 604,084 Lbs. of ductwork and proportionately Lbs. of supports for ductwork. SUBCONTRACTOR shall furnish and install the following:

1. C1 Ventilation System provides heating, cooling, humidification and ventilation
2. C2 and C3 Ventilation systems are designed to support the confinement of airborne contamination within the building by air distribution and pressure control.

Work Excluded: The following Work (representative) will be excluded from this Subcontract:

- Design, furnish and installation of HVAC equipment, which includes the following:
  - Air handlers,
  - Fan coil units,
  - Large fans (does not exclude small fans identified on SSW data sheets),
  - HEPA filter housings,
  - Remote operated dampers, furnished with remote change HEPA filter housings,
  - Furnishing and installing of electric unit heaters,
  - Penetration Seals
- Engineering drawings including V&IDs, duct orthographic, component and equipment data sheets, specifications, structural steel drawings to assist in SUBCONTRACTOR's design and placement of duct supports.

**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

**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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