

September 29, 2021

CPCC-JMR-21-006

Dear Interested Parties:

SOURCES SOUGHT/EXPRESSION OF INTEREST – MULTI-CANISTER OVERPACK WELDING SERVICES

Central Plateau Cleanup Company (CPCCo) as a prime contractor to the U.S. Department of Energy (DOE) is issuing this Request for Expression of Interest (EOI) as a means of conducting market research to identify parties having an interest in and the resources and experience to oversee final welding of multi-canister overpacks containing spent nuclear fuel. The result of this market research will contribute to determining the method of procurement.

Interested firms are invited to submit an expression of interest letter to include a response to the following:

Background: The DOE is engaged in the world's largest environmental cleanup project at the Hanford Site. The site sits on 580 square miles of shrub-steppe desert in southeastern Washington State and produced plutonium for the U.S. nuclear weapons program from 1943 through the late 1980s. With an annual budget of more than \$2 billion dollars, the Department of Energy's strategy for remediating the legacy of producing nuclear materials is to treat and dispose of approximately 56 million gallons of radioactive and chemical waste in 177 large underground tanks; reduce risk to workers, the public and the environment by cleaning out and demolishing former production facilities, remediating contaminated soil, remediating contaminated groundwater, and securely and safely storing nuclear materials; and reduce the costs of continuing operations and surveillance and maintenance.

Part of CPCCo's support to the Hanford environmental mission is providing safe and compliant storage of Hanford's nuclear waste. CPCCo ensures waste fuel is contained and stored per requirements until waste can be safely removed for final disposition. The CPCCo Fuels Facilities organization operates and maintains the Canister Storage Building in Hanford's 200 East Area. This facility contains equipment to support the staging, and interim storage of Multi-Canister Overpacks (MCOs) holding spent nuclear fuel. The following is a brief synopsis of the MCOs.

- A total 412 MCOs were loaded in the early 2000s with:
 - N-Reactor Fuel
 - Single-Pass Reactor Fuel
 - Knock-Out pot Product Material
 - Shippingport Blanket Fuel

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- Of the 412 MCOs, 397 were completed by welding the cover cap and attachment of the ASME N-Type symbol.
 - The remaining 15 MCOs were not completed (cover cap was not welded to the MCO) to allow monitoring of internal conditions and validate engineering models for oxygen, hydrogen, pressure, and temperature values.
 - Calculated MCO internal conditions were confirmed to meet the engineering models.
 - The remaining MCOs are ready for final closure – welding of the cover caps.
- The MCOs were fabricated in accordance with the ASME B&PV code (1998 Ed.), Section III, Division 1, Subsection NB.
 - Final closure implements welding rules identified in ASME Code Case N-595-3.

Scope of Services: The services to be acquired include applying the necessary program and oversight for final closure welding of the 15 remaining MCOs.

- The contractor shall have proper and current ASME N-Type certifications to complete the welding at the DOE Hanford Site. An important aspect of this work is that the welding services must be performed at Hanford in CPCCo-controlled facilities.
 - Welding shall be in accordance with the rules identified in the ASME Code and code case, N-595-3.
 - The Hanford Site welding facility is designed to reduce radiation levels at the weld; nonetheless, welding operators will be remote to the MCO. Access for equipment setup, weld repair and inspection, examination, and testing, will be allowed.
- The contractor will be expected to train and qualify Hanford Welders, who will physically perform the welding activity.
- The contractor will be expected to participate in the facility's readiness assessment.
- Welding will be performed in accordance with the original welding procedure specification (WPS) variables. Welding equipment will be furnished by the Buyer.
- The contractor shall perform all required examinations and testing to include visual, liquid penetrant and helium leak testing.
- The contractor shall apply the N-Type symbol to the completed MCO and prepare all required documentation to include the ASME code data report.

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- The contractor shall provide oversight for the entire process and shall supervise all activities including welding, weld inspection, examination and testing, and documentation.

THERE IS NO SOLICITATION AT THIS TIME. This request for capability information does not constitute a request for proposals; submission of any information in response to this market survey is purely voluntary; CPCCo assumes no financial responsibility for any costs incurred.

CPCCo will evaluate market information to ascertain potential market capacity to provide services consistent with those described in this announcement. Telephone inquiries will not be accepted or acknowledged, and no feedback or evaluations will be provided to companies regarding their submissions. Further, CPCCo is not currently seeking proposals and will not accept unsolicited proposals.

Submission Instructions: Interested parties who consider themselves qualified to perform the above-listed services are invited to submit a capability statement in response to this announcement no later than **4:00 P.M. Pacific Time, October 27, 2021**. The capability statements (Items 1-3 below) shall be no more than a total of ten (10) pages, and no smaller than 12 point font. All responses must be emailed to john_m_robinson@rl.gov

At a minimum, capability statements shall contain the following information:

- 1) Organization name, address, email address, Web site address, and telephone number.
- 2) Business size standard for the organization including socio-economic status (small business, service-disabled/veteran-owned small business, HUBZone small business, small disadvantaged business, and/or woman-owned small business, or large business). The applicable North American Industry Classification System (NAICS) code assigned to this service is 332420 and the small business size standard is 750 employees.
- 3) Tailored capability statements addressing the particulars of this effort, with appropriate documentation supporting claims of organizational capability. If significant subcontracting or teaming is anticipated in order to deliver technical capability, organizations should address the administrative and management structure of such arrangements.

CPCCo reserves the right to use any and all information submitted by, or obtained from, an interested party in any manner CPCCo determines is appropriate, including, but not limited to, the creation of a competitive solicitation. An interested party should avoid including any classified, business confidential, and/or proprietary information in its response. However, if an interested firm must submit such information, the information must be clearly marked, and the interested firm must provide sufficient justification as to why such information is business confidential and/or proprietary. CPCCo will review the information and safeguard it appropriately.

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CPCCo looks forward to hearing from you regarding this request.

Sincerely,

John M. Robinson, Manager
Procurement & Supply Chain