

Expression of Interest

Uranium Processing Facility

Low Equity Calciner, Controller and Cyclone

B & W Y-12 National Security Complex

B&W Y-12, L.L.C., (hereafter known as “Y-12”; for additional company information, see website www.y12.doe.gov), acting under its Prime Contract No. DE-AC05-00OR22800 with the United States Department of Energy (DOE), is soliciting an Expression of Interest (EOI) for the design with an option to fabricate, test, and provide installation support for a Rotary Calciner including a PLC and offgas line with a cyclone for use at the Y-12 National Security Complex in Oak Ridge, Tennessee.

This request for EOI does not constitute an invitation for sealed bids, a request for proposals, or offers. **This EOI is explicitly for the design with an option to fabricate, test, and installation support of Rotary Calciner including a PLC and offgas line with a cyclone.** The purpose of this request is to identify prospective and qualified small business firms. Responses received will be used for planning purposes and determining candidates for subsequent procurement actions, if any. It is the Company’s intent to make this procurement a Small Business Set-Aside if adequate small business participation is available. However, firms of any size that meet the criteria below are encouraged to submit the required criteria.

After evaluating responses to the EOI, the company will determine if an adequate number of qualified small businesses are interested to allow for a competitive Small Business Set-Aside. If so, the company will issue a Request for Proposal (RFP) to the qualified small businesses which responded to the EOI. If it is determined a sufficient number of small businesses are not available, the company will issue a Request for Proposal to small and large businesses. Firms that do not respond affirmatively to all the qualifying criteria during the EOI phase will not be eligible for subsequent procurement actions.

The North American Industry Classification (NAICS) Code for this EOI is 333249. The small business size standard is 500 employees. The following criteria has been established for vendors interested in the opportunity to design with the option of fabrication, testing, and installation of a rotary calciner, which includes a split tube furnace, an offgas line including an eductor and cyclone separator, and a controller (PLC) to run the equipment provided.

Please provide a brief statement to support each affirmative response.

Description and characteristics of equipment:

The Rotary Calciner (4” NPS size, estimated length of 8 – 10 ft., (final length TBD)) shall be built to the ASME BPVC, but not stamped. The furnace associated with it shall be an UL listed furnace capable of a maximum temperature of 1204C and a heat load of 20 to 25 kW. The furnace shall be a split tube furnace with 3 heating zones. The Rotary Calciner shall operate under a slight vacuum (-30 inches of water column) and the furnaces will operate at 1000 – 1050C. The Rotary tube shall be made of Haynes 230. The Rotary Calciner is fed liquid feed to convert to a powder product. The Rotary Calciner shall be provided with a frame and the equipment shall be seismically qualified to SDC-3 LS-D.

A PLC with programming shall be provided to control the feed, temperature, vacuum/pressure and rotation of the Rotary Calciner.

Off gas piping (2" NPS max) shall be made of Haynes 230 and built to ASME BPVC, but not stamped. An eductor shall be sized to maintain vacuum requirements for the Calciner. A Cyclone Separator made of 347 SS shall be provided to remove particulates and built to ASME B31.3. This equipment shall be seismically qualified to SDC-3 LS-D.

- A. Has your organization designed, fabricated, tested, and provided installation support for a rotary calciner and the associated equipment as a product for at least five years?

Yes No

If Yes, provide at least three references with customer name, customer contact, approximate value of contract, pictures of a rotary calciner and the associated equipment and date of product delivery.

- B. Does your organization have the facilities, equipment, and personnel required to design, fabricate and test the a rotary calciner and the associated equipment prior to delivery, and then provide installation support of the a rotary calciner and the associated equipment?

Yes No

If response is yes, provide a description of your organizations facilities and personnel qualifications.

If response is no, provide the name of the organization(s) that would be providing the design, fabrication facilities and personnel required to complete this project.

- C. Does your organization have a quality program?

Yes No

If response is yes, complete and return the attached Supplier Qualification Questionnaire and provide a copy of any third party audits conducted during the past three years.

- D. Does your organization have a Commercial Grade Dedication Program (CGD)?

Yes No

If response is yes, provide a list, by title, of your organizations CGD implementing procedures.

- E. Can your company supply hardware which is UL-508A approved?

Yes No

If response is yes, provide a statement on how your organization accomplishes this.

- F. Is your company a United States owned company, or alternatively are you a company with at least 51% of the cost to manufacture your product arising from U.S. content?

Yes

No

If response is no, provide the country(s) of manufacture.

Additional Information

Technical documents for this project may contain Unclassified Controlled Nuclear Information (UCNI), Export Control Information (ECI), Official Use Only (OUO) and /or International Traffic in Arms Regulations (ITAR) information. These classifications require special information security preparations on the part of the short-listed subcontractors prior to receiving an RFP. Therefore, all Subcontractor, Sub-Tier and/or Teaming Partners' personnel assigned to participate in the solicitation and subsequently, if awarded the subcontract, personnel assigned to the design, optional fabrication and installation support must be U. S. Citizens.

Path Forward

After receipt and evaluation of the data required to be submitted with the EOI, it is expected that discussions may be held with your organization in order to further understand your organization's capabilities and qualifications. Y-12 anticipates release of a solicitation package only to those qualified organizations responding to the EOI.

If your firm meets the participation criteria stated above and are interested in responding to this notice, please respond by **December 2, 2013**. Upon request, you may be requested to provide additional documentation to substantiate your responses to the above questions. Your response is to be provided by mail or electronically to the contact listed below. If you do not respond affirmatively to all the qualifying criteria you will not be considered for subsequent procurement actions.

All correspondence relative to this Expression of Interest must be submitted no later than **December 2, 2013** to:

B & W Y-12, LLC
90 Union Valley Road
Oak Ridge, TN 37830
Attn: Elaine Najmola
Mail Stop 8042
Phone: 865-241-1241
E-Mail: najmolame@y12.doe.gov