

February 12, 2015

2DB00-ARH-15-06

EXPRESSION OF INTERES: EOI 2DB00-ARH-15-06

EXPRESSION OF INTEREST (EOI) FOR ONE (1) TO EIGHT (8) EXTENDED REACH SLUICING SYTEMS

Washington River Protection Solutions (WRPS) - the Tank Operating Contractor (TOC) for the U.S. Department of Energy Hanford site – has an operating annual budget of \$500M US. The Hanford Site stores mixed radioactive and chemically hazardous waste in large underground tanks. Hanford has 149 older Single Shell Tanks (SST) and 28 newer double-shell tanks (DST) grouped together in tanks farms. The SSTs have capacities from 500,000 up to 1,000,000 gallons; and, measure up to 75' in diameter and 45' in depth. Multiple openings in the dome of the tanks (risers) provide access into the tank for operational activities.

Background

The SSTs have exceeded their design life. Some of the radioactive waste contents have leaked, or are assumed to have leaked, from the SSTs to the environment. For a number of years, the TOC has used retrieval methods to transfer waste from SSTs to DSTs for safe storage, including: modified sluicing, enhanced sluicing using the Extended Reach Sluicing System (ERSS), saltcake dissolution, and the Mobile Arm Retrieval System (MARS). The tank waste generally consists of a surface liquid layer (supernate/slurry), an intermediate layer of sludge material, and a bottom layer of solidified (hard cake or saltcake) material. The waste slurry is pumped by the above mentioned systems through hoses, piping, valve pits, and double wall steel transfer lines.

Current Approach

To date, the TOC has used modified sluicing, enhanced sluicing using the Extended Reach Sluicing System (ERSS), salt cake dissolution, and the Mobile Arm Retrieval System (MARS) as the baseline waste retrieval technologies. Each method of retrieval is designed to transfer radioactive waste slurry liquid. The slurry from the SSTs, travels from an in-tank pump, through hose-in-hose transfer lines (HIHTL), valve-boxes (which provide valving for switching to different transfer lines), and double wall steel transfer lines, into the DSTs at a secondary location.

Technology Need

As the TOC commences retrieval of the next series of tanks, timely procurement of complex retrieval hardware is required to meet critical schedule milestones. The purpose of this EOI is to solicit interest for fabrication of (8) eight Extended Reach Sluicing Systems (ERSS). Interested parties are invited to submit an expression of interest letter to include a response to the following:

1. A description of similar complex equipment fabricated within the past 10-years, as well as a brief description of your quality assurance program.
2. A rough order of magnitude (ROM) cost estimate for all elements of work necessary to fabricate and deliver up to eight (8) completed and tested Extended Reach Sluicing Systems (ERSS) (ref. attached ERSS specification RPP-SPEC-47739, Rev.4). See Note below:
3. A ROM schedule and any qualifying conditions for meeting that schedule

Note: A CONFIDENTIALITY AGREEMENT form is attached to this posting and must be completed and submitted to the Procurement Specialist prior to the issuance of specification to your company.

Vendor Responses

Please send all correspondence regarding this EOI to Alice Hendrickson@Alice_R_Hendrickson@rl.gov. Please use EOI 2DB00-ARH-15-06 in the e-mail subject line. Alice may be reached by telephone at (509) 376-9225. All questions need to be formally submitted to the Procurement Specialist via email or fax. Responses are due by **April 15, 2015**. Response to this EOI is required to be considered in forthcoming procurements related to this EOI.

WRPS will then evaluate the expression of interests received, and make presentations and recommendations to the Department of Energy (DOE). Selected firms will be pursued with related solicitation(s).

Closing Remarks

Please be aware, this is not a Request for Proposal, but a request for an expression of interest. WRPS will not award a contract(s) based on this expression of interest, nor pay for information solicited. WRPS expects to issue an RFP within (2) two months of receiving expressions of interest.



We look forward to hearing from you regarding our request and seeing you in the near future.

Sincerely,

Alice Hendrickson, Procurement Specialist

Procurement

cc: file