

REMOTE EXCAVATION SYSTEM

REQUEST FOR INFORMATION

November 29, 2016

INTRODUCTION

THIS IS A REQUEST FOR INFORMATION (RFI) ONLY. This RFI is issued by CH2M Hill Plateau Remediation Company (CHPRC) solely for information and planning purposes – it does not constitute a Request for Proposal (RFP) or a promise to issue an RFP in the future. This request for information does not commit the CHPRC to contract for any supply or service whatsoever. Further, CHPRC is not at this time seeking proposals and will not accept unsolicited proposals. Responders are advised that the CHPRC will not pay for any information or administrative costs incurred in response to this RFI; all costs associated with responding to this RFI will be solely at the interested party's expense. If a solicitation is released, it will be issued on CHPRC's Current Solicitations website at:

<http://chprc.hanford.gov/page.cfm/CurrentSolicitations>. It is the responsibility of the interested parties to monitor this site for additional information pertaining to this requirement.

CHPRC in support of the U.S Department of Energy (DOE) is requesting information from interested contractors as an integrator to supply integrated remote excavation systems (RES) for mockup testing and operational training. These systems will support the effort to remove highly contaminated soils from beneath the B-Cell of the 324 Building, a non-reactor, Category 2 nuclear facility located in the 300 Area of the United States DOE Hanford Site.

CHPRC is interested in identifying whether potential recipient integrators which can include teaming arrangements have the capability to supply integrated remote excavation arm systems (REAS) for mockup testing and operational training. These systems will support the effort to remove highly contaminated soils from beneath the B-Cell of the 324 Building, a non-reactor, Category 2 nuclear facility located in the 300 Area of the United States DOE Hanford Site.

BACKGROUND

The REASs are used to excavate soil, size reduce and load waste as well as provide material and tool handling within a high-radiation and radiological-contaminated hot cell. The REAS is designed around industry-proven, reliable, and readily-available excavator equipment. The REAS standard commercial components are adapted to fixed anchorages, and updated to incorporate automatic-hydraulic tool connectors that allow all excavation activities to be performed remotely.

There are currently two versions of the REASs as shown in the figure below, an Upper REAS and Lower REAS. The Upper REAS uses an excavator boom and stick on a short mounting post while the Lower REAS uses an excavator boom and stick on a long mounting post. Remote mounting to the posts are identical and hose routing and base rotation are the same. Each system

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includes a remote excavator arm (REA), a hydraulic unit attaching the REA to a rigid mounting post, a hydraulic hose management assembly integral with each REA, a Helac Corp. hydraulic rotary actuator attaching the REA to the mounting post, a hydraulic power unit, an operator station, and the controls, wiring and hydraulic hoses necessary to operate the system remotely. The REASs will be required to be repositioned between predefined locations within the hot cell numerous times during the conduct of the intended soil removal operations.

RESPONDING TO THE RFI

RFI responses shall be a Letter of Interest that should include:

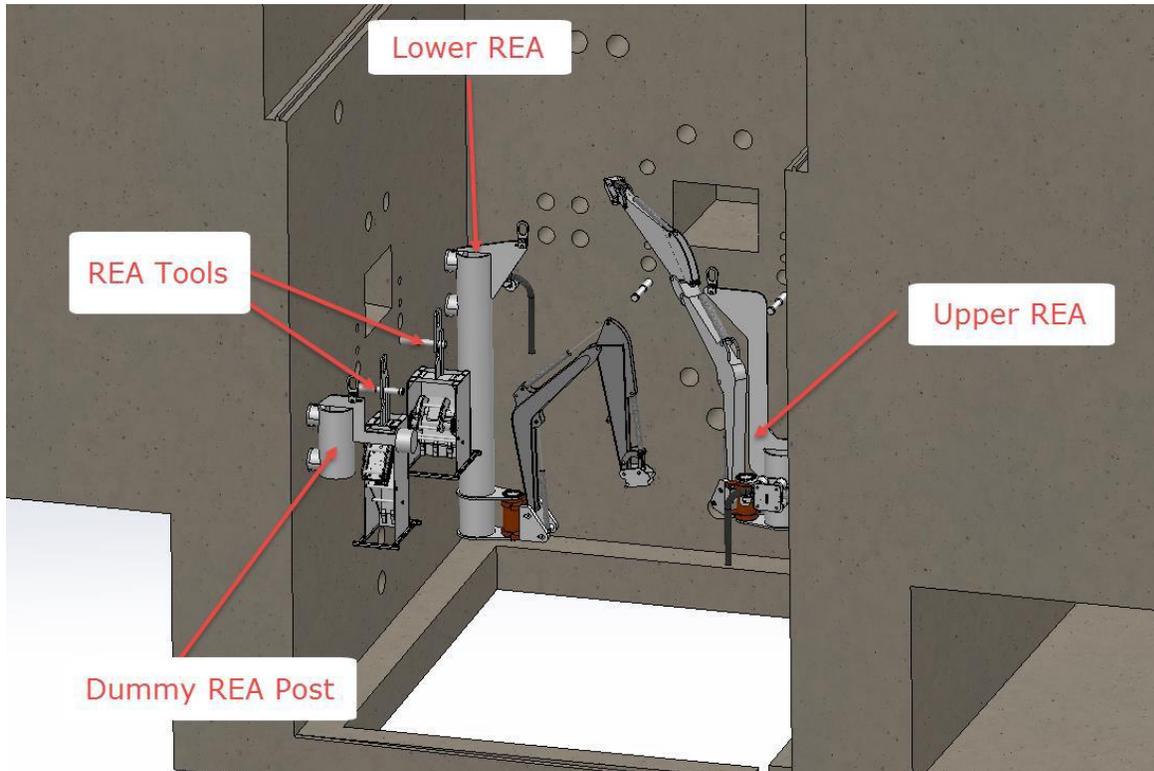
1. Name of Organization(s)
 - a. Name of the primary point of contact for the response including:
 - i. E-mail address
 - ii. Phone number
 - b. Identification of other key individuals who collaborated on the RFI response
 - c. If teaming, include the names/organizations of those teaming partners
2. Submittal of Qualifications
 - a. Specific capabilities and recent relevant experience in successfully developing, manufacturing, testing, and delivering similar type systems as the aforementioned integrated remote excavation systems (RES) for mockup testing and operational training
 - b. Have engineering, quality, fabrication, manufacturing, procurement and testing capabilities
3. Budgetary Cost Estimate
 - a. The Budgetary Cost Estimate should include design completion, procurement, and integration of components into a single system
4. Schedule
 - a. An estimated timeline identifying the steps and durations that would enable delivery and installation of the system for CHPRC acceptance testing by September 28, 2017.

Of particular interest to CHPRC are the advantages that a contractor could offer with respect to shortening the development and testing schedule to deliver an integrated system for mockup testing and training. This information will support future decisions by the CHPRC Soil Removal Project in developing its procurement strategy for the REA systems. If found advantageous, a Request for Proposal (RFP) will be issued in January of 2017.

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The Upper REAS is comprised of the following assemblies and components:

- Upper REA
- Through Support Assembly
- Hydraulic Power Unit and Valve Stack
- Operator station and manual indicators (excavator chair)
- Control system and wiring between Operator Station and HPU (analog acceptable)
- Power system for control system and HPU
- Hydraulic hoses and fittings from the HPU to the Through Support Assembly

The Lower REAS is comprised of the following assemblies and components:

- Lower REA
- Through Support Assembly
- Hydraulic Power Unit and Valve Stack
- Operator station and manual indicators (excavator chair)
- Control system and wiring between Operator Station and HPU (analog acceptable)
- Power system for control system and HPU

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- Hydraulic hoses and fittings from the HPU to the Through Support Assembly

In addition to the one Upper and one Lower REAS for the mockup, other miscellaneous equipment will also be required, to include:

- One Upper REA cart
- One Lower REA cart
- REA tools & tool holders (i.e. hydraulic hammer, shear, power grip bucket, & long reach bucket)

It is CHPRC's preference to minimize any design iterations and utilize the existing design to the fullest extent possible. However, all information, options, and proposed alternatives will be considered. Simplicity in the design is sought without compromising the safety of the operating personnel.

The referenced drawings and specifications are provided as guidance only in order for the contractors to develop an informed response. It will be the responsibility of the contractor to ensure the systems can be fabricated, integrated, and operated to satisfy the detailed functional requirements (to be provided with an RFP).

Information provided in response to this RFI will be treated as proprietary. If CHPRC chooses to engage a contractor to provide the integrated system through an RFP, it is likely that the RFP will include an option to fabricate a second set of systems for installation within the 324 Building. The selected contractor would not install equipment, but may be requested to provide installation support. The second set of systems may have minor variances from the first set based on feedback from mockup testing and training.

Design Report Reference:

- KUR-1782F-RPT-016 R0, FINAL DESIGN REPORT NARRATIVE FOR THE REMOTE EXCAVATOR ARM SYSTEMS

RESPONSE SUBMISSION DEADLINE:

Responses to this RFI must be submitted no later than 1:00 pm Pacific Standard Time on December 15, 2016. RFI submissions will be accepted as e-mail attachments only. All responses must be sent to Doug Ordal, at Douglas_C_Ordal@rl.gov, with "RFI 300-296 REA Response" in the subject line.

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CHPRC has determined that North American Industry Classification System (NAICS) Code 541330, Engineering Services, applies to this acquisition. Therefore, the size standard for determining whether an Offeror is a small business in regard to this acquisition is \$15M. If an RFP is issued, CHPRC retains the option of issuing the RFP as a small business set aside.

QUESTIONS AND COMMENTS REGARDING THE RFI

The Contractors shall submit any comments or questions regarding the RFI to the Contract Specialist in writing no later than December 8, 2016. The Contractor may transmit questions and comments via fax or e-mail. The Contract Specialist will answer all questions in writing and post all questions and answers on the CHPRC website.

SITE TOUR

The attached reference information along with the responses to questions is expected to be adequate to prepare a response to this RFI. However, if a tour is necessary to prepare a response, a request should be submitted to the Contract Specialist no later than December 8, 2016.

SUBMITTAL ADDRESS

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