
REQUEST FOR BID
Periodic Crane Inspection
South Dakota Science and Technology Authority
SDSTA Contract # 2022-47
November 21, 2022

The South Dakota Science and Technology Authority (SDSTA) is seeking bids for annual inspection services for the cranes and hoists at the Sanford Underground Research Facility (SURF). The scope of this RFB does not include any of the hoisting systems used to transport persons within the shafts to access the underground space. Documents included in this Request for Bid include:

- A. This Request for Bid
- B. Environment, Safety, and Health Requirements
- C. Draft contract

1.0 Background

SDSTA is a quasi-governmental agency established by the State of South Dakota to operate and manage SURF at the former Homestake Gold mine in Lead, SD. This facility has been rehabilitated and developed to support a variety of scientific experiments, including physics, biology, geology, and others.

There are multiple cranes and stationary hoists that are used both on the surface and in the underground portion of the SURF. Some of these devices are critical to the operation of the facility, and therefore it is imperative that they are kept in adequate condition. A proper inspection program will help ensure that this is the case.

2.0 Scope

At this time, sixteen different cranes and stationary hoists have been identified as critical facility elements. This inventory of devices is used to lift, lower, and move items in different parts of the facility. This inventory is not inclusive of the hoisting systems that are used to move people and/or supplies within the Yates or Ross Shafts. Additional details for the devices included in this scope can be found in *Table 1*. The scope of this service will include (1) periodic inspection for each crane to be completed on an annual basis. The inspection criteria shall meet or exceed ASME standards and shall be documented properly. The SDSTA requires that a detailed report will be provided for each inspection. All person's performing the inspections shall be properly trained and certified to complete this type of work and prepared to provide documented proof of such.

Table 1. Critical Crane/Hoist Inventory

SDSTA Asset	Description	Manufacturer	Capacity (tons)	Location
OC-RSS01-01	Wire Rope MonoRail Hoist	R & M	7.5	Ross Headframe
OC-RSS01-02	Wire Rope MonoRail Hoist	R & M	10	Ross Headframe
OC-RSS01-03	Electric 30' Chain Hoist	Harrington	3	Ross North Skip
OC-RSS01-04	Electric 30' Chain Hoist	Harrington	3	Ross South Skip
OC-RSS02-01	Bridge Crane	Whiting Corp	25	Ross Hoist Room
OC-RSS04-01	Bridge Crane	Whiting Corp	25	Ross Crusher Room
OC-YSS08-01	Bridge Crane	Whiting Corp	10	Lower Foundry
OC-YSS02-01	Bridge Crane	P&H	30	Yates Hoist Room
OC-YSS02-02	Bridge Crane	Whiting Corp	25	Yates Hoist Room MG Set Room
OC-YSS04-01	Bridge Crane	Minnesota Crane	35	Yates Crusher Room
OC-YSS09-01	Bridge Crane	LO-HED	8	Hoist Maintenance Shop
OC-YSS22-04	Bridge Crane	R & M	10	ROC Maintenance Shop
OC-RSS04-02	Bridge Crane	CMCO-YALE	5	Ross Screen Room
OC-DVU26-02	MonoRail Electric Chain Hoist	Harrington	3	Davis Cavern
OC-DVU31-02	Electric Chain Hoist	R & M	5	4850L Big-X (East Drift)
OC-DVU31-03	Electric Chain Hoist	R & M	5	4850L Big-X (East Drift)

Exclusions: Hoisting and Conveyance Systems used to move people and supplies within the underground space.

3.0 Schedule

The activities noted in the Scope section above will be scheduled following the award of the contract. The schedule for completion of the service can be flexible as long as it can be completed on an annual basis. The proposed schedule for the bid process is as follows:

RFB Posted..... 12/5/22
 Pre-bid Meeting 12/15/22 at 9am
 RFB Responses Due..... 1/6/23 by 5pm
 Contract Awarded By (Target)..... 1/20/23

4.0 Reporting and Communication

The Surface Operations and Utilities Department will manage the crane inspection program at the SURF. Upon award, a schedule of inspection will be determined. This inspection schedule will be entered into the SDSTA asset management program to help with upcoming inspection reminders and to manage the documentation of inspection(s).

5.0 Bid Elements

The bid in response to this RFB must contain the following:

- 5.1 An explanation of the firm's previous experience and capabilities that deem them qualified to complete the scope as listed in Section 2. Potential inspector qualifications should be included as well.
- 5.2 Annual cost (lump sum) to perform the scope of work listed in section 2.

6.0 Bid Requirements

- 6.1 Proposers should submit an electronic copy (.pdf format) of the bid to:

Benjamin Brack
SD Science and Technology Authority
630 East Summit Street
Lead, SD 57754
bbrack@sanfordlab.org

- 6.2 Questions must be sent in writing by email to Benjamin Brack. Answers will be emailed to all prospective proposers and posted to the sanfordlab.org website. Prospective proposers must coordinate with Benjamin Brack regarding attendance of the site visit in Lead, SD.
- 6.3 The bid period may be extended at the discretion of the SDSTA based on the quantity and/or complexity of questions. Any notices of extension of time to respond will be distributed to all prospective proposers.
- 6.4 All communications regarding this procurement between RFB release and contract award shall be directed to (enter contract specialist). Communications with other SDSTA staff regarding this procurement in advance of the contract award are not allowed.

7.0 Selection Process

The SDSTA will review all submitted bids for adherence to this request's requirements and capabilities and select the firm providing the most suitable bid.

Revision History

Rev	Date	Section	Paragraph	Summary of Change	Authorized by
01	5/17/2022	NA	NA	Initial issue	CCR 573