

Scope of Work
**On-Site Equipment
Sandblasting, Priming &
Painting Yates Conveyances**
Sanford Underground Research Facility, Lead, SD

RPB Posted:	July 7, 2020
Mandatory Site Visit	July 14, 2020 (RSVP by end of day July 10)
Written Questions Due:	July 16, 2020 2:00 p.m.
Question & Answers Posted:	July 21, 2020 2:00 p.m.
Proposals Due Date:	July 24, 2020 2:00 p.m.

1. REFERENCES.

1.1. This task order will be issued a Service Contract **2020-20**

2. OVERVIEW. The South Dakota Science and Technology Authority (SDSTA) has several shaft conveyances that require surface cleaning and painting to preserve structural integrity/corrosion protection. The Yates shaft is a wet shaft that requires constant wetting of the timber sets to preserve the wood structure. As a result, the service environment for any steel structures and conveyances is extremely harsh. There are four Yates conveyance structures that will require cleaning, priming and painting services.

- South Cage
- North Work Deck
- South Skip Bonnet
- North Skip Bonnet

This Scope of Work describes the cleaning and recoating services required for the North Work Deck and South Skip Bonnet only, as these two structures are currently not in service and are being stored outside in a material laydown yard at the SDSTA site (ie not installed in the shaft). SDSTA will have both stored conveyances relocated and placed on cribbing on the Rope House building concrete pad prior to the mobilization of the sandblasting/painting contractor. (See Photo #1: Rope House concrete pad)

Repositioning/rotating of the larger pieces for access by the sandblasting/painting contractor during cleaning and priming/painting will be performed by SDSTA or Others in conjunction with the sandblasting/painting contractor. Sandblasting/painting contractor to provide 1-day notice to SDSTA for any repositioning/rotation needs.

NOTE: The other two conveyance structures (ie the South Cage and North Skip Bonnet) are currently installed in the shaft and will require that cleaning/painting services be performed

while being in some state of in-place/inside the Yates headframe condition. A separate request for quotation will be issued later for these two “in-place” units.

3. DESCRIPTION OF WORK. SDSTA desires that a commercial sandblasting and painting contractor provide steel cleaning and painting services to refurbish existing Yates conveyance structures prior to those structures being placed into service in the Summer of 2020. Please quote each conveyance separately, assuming both will be done in the same timeframe if refurbishment of both conveyances is awarded (i.e. one mobilization). Provide an anticipated timeline/duration to perform the cleaning/painting services for each unit.

NORTH WORK DECK

The existing North Work Deck is in two primary pieces (plus several smaller ancillary items) stored at SDSTA's Rope House Road laydown yard. Reference Photos 2-5 and Spencer Engineering Drawing attached to this SOW for size and scale. This work deck was originally fabricated in 2008 and put into service in the Yates shaft between 2009 and 2011 and has since been stored outside yielding the condition shown in the photos.

SDSTA desires that this structure be sandblast cleaned per SSPC-SP10 / NACE 2 Near-White Blast cleaning and then recoated per the attached FKC-Lake Shore paint specification. Final coat to be Vermillion Red for the entire structure except for any items that are currently painted yellow which are to be coated Safety Yellow. Note the existing yellow-coated aluminum handrails only need to be blast cleaned and not repainted (ie to be left bare aluminum finish).

Please price two options for coating applications as follows:

1. Typical Service Application

Primer/Base – AMERCOAT 370	3.0 - 4.0 mils
Top Coat – DURETHANE DTM Urethane Mastic 95-3300	3.0 – 5.0 mils
2. Heavy Service Application

Zinc Primer/Base – PMC AMERCOAT 68HS Zinc Rich Epoxy Primer	2.0 - 5.0 mils
Top Coat – PMC PSX 700 Engineered Siloxane	3.0 – 7.0 mils

Debris from the sandblasting efforts are to be retained and collected by the Contractor and turned over to SDSTA for disposal by SDSTA. Sandblasting media to be approved for use by SDSTA prior to being brought on site. Sandblasting media to be selected to reduce harmful affects of silica, and to reduce the potential of hazardous waste disposal concerns.

SOUTH SKIP BONNET

The existing South Skip Bonnet is in one piece stored at SDSTA's Rope House Road laydown yard. Reference Photo 6 and Albertson Engineering Drawings attached to this SOW for size and scale. This work deck was originally fabricated in 2015, was never placed into service, and was stored outside yielding the condition shown in the photos. The unit is currently coated with 2-3 mils of red oxide primer.

SDSTA desires that this structure be power tool cleaned per SSPC-SP3 and recoated per the

attached FKC-Lake Shore paint specification. Color to be Vermillion Red on the structure.

Please price two options of coating applications as follows:

1. Typical Service Application

Primer/Base – AMERCOAT 370	3.0 - 4.0 mils
Top Coat – DURETHANE DTM Urethane Mastic 95-3300	3.0 – 5.0 mils

2. Heavy Service Application

Zinc Primer/Base – PMC Amercoat 68HS Zinc Rich Epoxy Primer	2.0 - 5.0 mils
Top Coat – PMC PSX 700 Engineered Siloxane	3.0 – 7.0 mils

4. REFERENCE:



Photo #1: Rope House concrete pad – to be used as the on-site sandblasting/painting area.

1. FK Lake Shore Painting & Cleaning Specification and paint product cut sheets.
Document QD05-0001, Rev 1 – 30 pages

North Work Deck:

2. Spencer Engineering Work Deck Drawing W2008142-100 Rev 2 – General Arrangement for component weights and dimensions.



Photo #2: Upper section of North Work Deck – View from lower end.



Photo #3: Upper section of North Work Deck – View from upper end.



Photo #4: Upper Section of North Work Deck – Side View.



Photo #5: Lower Section of North Work Deck.

South Skip Bonnet

3. Albertson Engineering Drawing Set for the Skip Bonnets – 3 drawings



Photo #6: South Skip Bonnet – Side View.

Submission Requirements

All bidders are required to attend an onsite pre-proposal conference July 14, from 9:00 a.m. -11:00 a.m. MT at the Sanford Lab, 630 East Summit Street, Lead South Dakota. Pre-registration is required email mbaumann@sanfordlab.org by close of business July 10th to receive instructions and directions. Only companies represented at the pre-proposal bid conference will be eligible to submit proposals.

Written Questions are due by July 16th, 2020 by 2:00 p.m. email to mbaumann@sanfordlab.org. Only companies represented at the pre-proposal bid conference will be eligible to submit bids.

Questions / Answers will be emailed to all prospective bids and posted to the sanfordlab.org website no later than July 21, 2020.

Bidders should submit an electronic copy (.pdf format) of the proposal no later than 2:00 p.m. July 24, 2020, to: mbaumann@sanfordlab.org.

The proposal period may be extended at the discretion of SDSTA based on the quantity and/or complexity of questions. Any notices of extension of time to respond will be distributed to all

prospective bidders by SDSTA.