SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY
REQUEST FOR PROPOSALS
1250L Pump Room Rehabilitation

RFP #2025-19

Mandatory Site Visit:	October 10, 2025, 7:30 am MST
Pre-Registration for Site Visit	October 7, 2025, 4:00 pm MST
Questions Submitted:	October 21, 2025, 4:00 pm MST
Questions & Answers Posted:	October 23, 2025, 4:00 pm MST
Proposal Due Date:	November 4, 2025, 2:00 pm MST

1. PURPOSE:

This Request for Proposal (RFP) is issued by the South Dakota Science and Technology Authority (SDSTA) for Construction Services for the demolition and rehabilitation of the 1250L pump room. An individual firm will be selected for a fixed price contract based on the total of the quantities and unit costs listed on the project bid sheet, demonstrated competence, and qualifications for the required work. Documents included with this RFP include:

A. Draft Contract (2025-19)
B. Draft Construction General Conditions Agreement (2025-19)
C. Bid Security Form (to be submitted with proposal)
D. Payment and Performance Bond Form (informational – to be submitted with contract)
E. SDSTA Bid Sheet
F. SDSTA Design Documents
    a. SDSTA Drawings *(1250L Pump Room Rehab 100% Stamped Plans 2025-07-25.pdf)* – Complete set of engineering drawings prepared by West Plains Engineering
    b. SDSTA Specification (*1250L Pump Room Rehab 100% Stamped Specifications 2025-07-25.pdf*) – Complete set of project specifications prepared by West Plains Engineering
    c. SDSTA Equipment *(PWM 176409-176410 SDSTA Sanford Lab Dewatering Pump PWM - Final Data Book_Rev.0.pdf)* – Complete set of pump drawings and manual prepared by DXP
G. Contractor Pre-Qualification & ESH Questionnaire
H. Exhibits
    a. *General Information (1250L Work Area and General Info.pdf) – Provides photos and general information for the 1250L work area*
    b. *Pipe Marking Standard (Design Standard^ Pipe Marking^Labels.pdf)*

2. PROJECT BACKGROUND:

The pumping system at SURF is responsible for removing all the natural water inflows that accumulate through the vast underground workings of the former Homestake Gold Mine. The pumping system removes water from the underground using a deep pool pump and 4 pump rooms. The water is pumped sequentially in "lifts" from the deep pool to pump rooms located at the 5000, 3650, 2450, and 1250 levels and finally to the Wastewater Treatment Plant.

All of SURF's pump rooms consist of inlet/discharge lines, a water collection reservoir, a pump to move the water, and electrical infrastructure to support pumping operations. The 3650L Pump Room received extensive rehabilitation that was completed in 2025. However, all other pump room configurations at SURF have remained unchanged since Homestake's closure in the early 2000's. The piping, pumps, and electrical infrastructure within these rooms need replacement.

The SDSTA is actively planning to rebuild each of these pump rooms with the goal of outfitting each rehabilitated room with a new pump/motor/baseplate package and required supporting mechanical and electrical infrastructure upon project completion. The 1250 Pump Room is next on the list to receive extensive rehabilitation.

3. EXISTING CONDITIONS:

The 1250 Pump Room (Figure 1) is the second pump room rehabbed as part of a larger recapitalization program. A photo of the current pump setup is provided to give bidders a general idea of the environment these pumps operate in. This photo is provided for information purposes only. All the piping shown will be reconfigured as part of the rehab.

Figure 1. 1250L Pump Room (left) and 1250L Access Drift (right)

General access and site conditions are summarized by the following:

Offeror Parking:

The Ross shaft is currently the only access to the 1250L pumproom. Parking and space

surrounding the Ross shaft is limited by all the existing construction activities happening on the surface and underground. The Offeror will be required to shuttle their workers to/from the Ross using the following arrangement:

- Offeror employees park their personal vehicles in the administrative parking lot
- Employees board a shuttle (provided by the contractor)
- Shuttle transports workers (approximately 1 mile) to the Ross shaft
- Offeror parks shuttle in designated parking area and walks approximately 200 ft to the Ross shaft for transportation underground.

The shuttle route and designated parking areas are shown in Exhibit Ha. The Offeror will be required to leave the keys in the shuttle so it can be moved by SDSTA if needed

General Access, Work Area, Crew Size, & Sanitation: Access to the 1250 Pump Room and is provided by the Ross shaft. The pump room is directly behind the Ross Shaft and is accessed by approximately 200 feet travel ways. Photos of the work area are shown in Exhibit Ha. The specific areas include:

- 1250 station near the Ross shaft
- 1250 drift leading to the back of the Ross shaft
- Drift leading to the pump room
- 1250 pump room

The 1250 level can have up to 8 people on the level. These numbers are limited by the refuge chamber capacity and shall not be exceeded by the offeror. Additionally, SDSTA has a portable toilet on the 1250L in a cutout near the Ross shaft. The contractor will be allowed to use this portable toilet for the duration of the project. The toilets are pumped weekly. The contractor will be required to bring the toilet to the station so they can be transported to the surface for pumping and replacing the toilet once pumped. The 1250L is not a high foot traffic area so the primary waste generated will be from the contractor.

Ross Shaft Access & Working Near the Shaft: The offeror will be required to work within the Ross cage times. The following cage time is available for offeror access to the 1250 pump room: Cage time down 7:30, Cage times up 4:30pm.

The offeror will not be allowed to perform portions of work that require working in or near (within 6 ft) the shaft, or the solo use of the Ross shaft conveyance (eg shaft thrust block installation, material transport). All portions of work requiring entry into the Ross shaft or use of the conveyance will be performed by SDSTA. The offeror will be required to coordinate these portions of work with SDSTA. The general workflow of this arrangement will be as follows:

Shaft Related Work for the 1250L Pump Room

- Offeror notifies/coordinates with SDSTA for shaft related work
  - 2 week notice for major activities (eg. thrust block, electrical, pump transport)
- Offeror performs work to within 6 ft of the Ross shaft
- SDSTA takes over the work
- SDSTA completes the work to within 6 ft of the Ross Shaft
- Offeror completes work

Offeror Load Transportation to/from the 1250L Pump Room

- Offeror notifies/coordinates with SDSTA for load movement

    - 1 day notice for material/load transportation that fit inside the cage
- Offeror delivers loads within 20ft of the Ross shaft (headframe/station)
- SDSTA loads conveyance with offeror's supplied loads
- SDSTA delivers loads at least 20 ft from the Ross Shaft (headframe/station)
- Offeror transports loads where needed
- For all cases the offeror will be responsible for ensuring that the transported loads are packaged/bundled in manageable individual lots that can be easily loaded on the cage. SDSTA will not repackage contractor loads for transport underground.

Material/Equipment Access: Rail access from the pump room to the Ross shaft can be used to transport material and equipment into the pump room. SDSTA can supply the offeror with the following rail cars for equipment & material transportation:

- 4 timber trucks capable of hauling four 11ft pipe sections each
- 1 flat deck
- While more loads maybe available for movement on a case by case basis, the offeror shall plan on limiting the amount of loads transported per day to
    - 4 timber trucks & 1 flat deck during day shift
    - or
    - 4 timber trucks & 1 flat deck at the end of shift that can be moved by the night shift shaft crew

The offeror will be required to provide powered equipment to assist with demolition, installation and material transport. With the legacy piping in place the largest pieces of powered equipment that can fit on the level are equivalent to a Bobcat MT100 walk behind and a Bobcat E10 mini excavator.

Additionally, all materials brought underground must fit inside the Ross cage and be capable of transportation across the 1250 level:
Ross Cage Limits:

- Height = 122 inches
    - Note the drift accessing the pump room is 8ft x 8ft but varies. All equipment needs to fit in its intended location. Equipment being placed outside of the pump room must be checked for height clearance prior to purchase and installation.
- Width = 53 inches
- Length = 144 inches
- Payload = 13,000 lbs

Transported Load Limits (tunnel limited assuming flat deck rail car):

- Width = 45 inches (some flexibility but wider items need to be checked)
- Height = 37.625 inches (Strict 1250L pump room limits)
- Length = 93 inches (some flexibility but wider items need to be checked & excludes pipe)

This will also require that all demoed materials are 11ft in length or less and that all piping for this project is brought underground in 11 ft lengths. The offeror is ultimately responsible for determining the equipment that is needed to complete this project and ensuring that all items can fit inside the Ross cage and travel to the pump room and fit in their intended location.

4. SCOPE OF WORK:

The scope of the 1250L Pump Room Rehabilitation is fully detailed in ATCH Fa, Fb, Fc, and Exhibit Ha. The above plans and specifications should be used in conjunction with the summarized list of activities below for the overall project scope:

Item A: Demolition of existing Items

a) Electrical
   - Establishing Temporary Construction Power & Ventilation (see details below)
   - Establishing Temporary Lower Level Power (see details below)
   - Conductors from switchgear to transformer switch & transformers
   - Transformer cage and switch
   - Three oil filled 500 KVA transformers
   - Conductors coming from the transformer to the existing modified Benshaw and the existing modified Benshaw
   - Conductors coming from the transformer to pump controller
   - Pump controller, soft start, disconnect
   - All pump room lighting, wiring, receptacles
   - Legacy PLC instrumentation and wiring (Existing RTU panel to remain)
   - Any remaining electrical infrastructure in the pump room
   - Establishing temporary power

b) Mechanical
   - Fill line (shaft to reservoir)
   - Suction line (reservoir to pump)
   - Discharge piping (pump room to shaft)
   - Drain line coming from the 300 on the 1250L
   - Pump room piping (all suction, discharge, column drain lines, fresh water supply lines and PRV manifolds)
   - All hangers, thrust blocks, and piping supports from reservoir to pump room to shaft
   - Pump baseplate and concrete bases (SDSTA removes pump and motor prior to contractor arrival)
   - Overhead hoist beam
   - Primary shaft thrust block (SDSTA removes)

Item B: (Electrical) Procurement & Installation of the following items

c) Electrical
   - 1500 KVA dry type transformer
   - 300 KVA dry type transformer, 480v panel, 10 KVA transformer, 120v panel
   - 5KV Switchgear
   - Pump controller – soft starter
   - 12 KV junction box (cut existing conductors to length)
   - Conductors from 12 KV switchgear to transformer to 5KV Switchgear
   - Conductors from the 5KV switchgear to existing tap box
   - Conductors from the 5KV switchgear 300 KVA transformer
   - Conductors from the 5KV switchgear to pump soft starter
   - Conductors from 5KV switchgear to 1250L 300 kVA transformer at the station

- Grounding
- LED lighting
- Installation and wiring of PLC instrumentation and connection to existing RTU panel
- Unistrut rack/supports
- Equipment concrete pads
- Removing temporary power and establishing final connection.

Item C: (Mechanical) Procurement & Installation of the following items:

d) Mechanical
- 8" discharge 1250L pump room to Ross shaft
- 8" fill line from Ross shaft (coming from 2450L) to 1250L reservoir
- 8" suction line from 1250L reservoir to pump intake
- 3" drain from Ross shaft (coming from the 300L) to 1250L reservoir
- 2" clean pump seal water from Ross shaft to 3650L pump room
- 2" compressed air from Ross shaft to 3650L pump room
- Connection of 2" horseshoe sump drain (pumped from tunnel floor) to common drain
- Connection of pump column drain to common drain
- Connection of common drain to 1250L reservoir
- Connections needed for 2450L column fill
- Pipe marking and labels applied

Item D: (Structural) Procurement & Installation

e) Structural
- Drift support beams
- Equipment supports
- Equipment pads
- Pump room thrust blocks (floor, wall, & ceiling)
- New Steel Cover Plate Over Trench in Room
- Pump room pipe stands
- Pump room equipment pad
- Pipe frames in drift
- Pipe frames in pump room
- Overhead Trolley Beams
- Shaft Thrust Block
- New Timber Over Trench
- New Steel Rail
- Bar Grating Over Sump Pits
- New Concrete Pedestals and Wall in Trench/Drift
- Overhead pipe supports at drift intersection
- Various diameter and lengths of all thread rock anchors
- Rock anchor resin
- high strength non shrink grout for thrust blocks and anchors
- equipment needed for installation

Item E: Pump Procurement and Installation

- Note the pump, motor, & baseplate will be procured by the offeror from DXP and will be supplied by the offeror for installation for this project (see Pump, Motor, Baseplate Procurement below)
- Transportation of pump from Ross shaft to pump room
- Transportation of baseplate from Ross shaft to pump room
  - Note this task is challenging and will require the baseplate to be transported on its side to make it back to the pumproom
- Transportation of motor from Ross shaft to pump room
- Pump equipment pad
- Pump baseplate grouting and leveling per ATCH Fc pump final data book
- Pump installation per the requirements in ATCH Fc pump final data book (electrically, mechanically, structurally)
- Commissioning & coordination with DXP

Pump, Motor, Baseplate Procurement

For this project, the offeror will be required to purchase the pump, motor, & baseplate from DXP and will be supplied by the offeror for installation for this project. The pump procured from DXP shall be identical to the pump procured for the 3650L rehab project (ATCH Fc pump final data book) with the following revisions:

- Change the material of the brass inboard/outboard gland seal lantern rings to the glass filled Teflon material with a 45° cut so that the rings can be removed from the shaft.
- Change the finish paint of the pump and the base plate to an epoxy type of finish.
- Coat the inside of the inboard/outboard pump bearing housing with a white epoxy type of finish.
- Add the two valve connections to the balance line.

Pump System Downtime

SDSTA relies on this pumping system to remove water from the underground. To reduce the impact to underground dewatering operations, offerors must limit pumping outages to no more than 120 days. This will require offerors to plan work efficiently to minimize system cutover. Outages must be built into the offerors project schedule. A minimum of two weeks' notice must be provided if changes to scheduled outages are needed

Project Construction Window

All water pumped from the SDSTA dewatering system is treated by the surface wastewater treatment plant. During the winter months the plant needs warm water that is pumped from the underground to prevent the plant from freezing. During construction on the 1250L pump room the treatment plant will not be able to receive warm water from the underground. The construction window for this project is from June 1st, 2026to October 31st, 2026. The offeror is required to plan all work so the project can be completed within this window.

12.47KV Up/Down Shaft J-Box Outage Window (note E102 on drawing E-103)

This junction box is a main power feed for everything below the 1250L on the Ross side. This project requires the junction box to be moved closer to the shaft and replaced. Any work associated with this junction box will require a substantial underground power outage and shall be planned at least 3 weeks in advance. The offeror will be required to plan work accordingly so that

the outage cutover window is limited to no more than 6 hours.

DXP Pump Commissioning

The offeror is responsible for commissioning the pump to DXP's standards see ATCH Fc. The offeror is required to have a DXP technician on site to verify proper pump setup and startup. The days on site may vary depending on how much knowledge the offeror has of API guidelines and experience installing API equipment. For bidding purposes DXP provided the following guidance:

- 1st trip - level base plate and perform rough alignment prior to grout - (2 days onsite)
- 2nd trip - work with welders to verify pipe stress prior to connecting piping (4 days onsite)
- 3rd trip - verify rotation, final alignment and startup of pump. Fill/check oil levels (3 days onsite)

The DXP contact for questions and estimation of these services is:

Rex Thronburg
Pumps and Packaged Equipment Sales
DXP Enterprises, Inc.
Casper, WY
Phone 307-234-6979
Mobile 307-267-0589

Pipe Marking and Labeling

The offeror will be required to apply pipe labels following ANSI/ASME A13.1 (Exhibit Hb Section 4.1). The labels shall consist of the following:

- Other Water (2450L Discharge, 1250L Discharge, 1250L Sump, Influent, Industrial water, Column Drain, Horseshoe Discharge
- Compressed Air

Temporary Construction Power & Ventilation

The 1500KVA transformers provide main power to the 1250L. When the legacy transformers are demolished, all power will be lost at the 1250L work area. The offeror will be responsible for the following activities to establish work area power:

- SDSTA will have a 480v/120v power zone, fed from a lower level, setup for the contractor to use during the rehabilitation. The offeror will be responsible for connecting all their temporary power needs to this zone. Additionally, the offeror will be required to connect a 20hp Coppus fan (supplied by SDSTA) to this power zone by providing a combination starter disconnect NEMA size 2 60A 480V 3P for 20HP fans. Connect to 50A3P circuit breakers in panel with 3#8+G armored cable
- The offeror will be required to connect SDSTA supplied vent bag to this fan to vent their work area during rehab

Temporary Lower Level Power

The 1500KVA transformers also provide main power to the 1700L and 2000L below. When the legacy transformers are demolished, all power will be lost on the listed levels. The contractor shall plan for these transformers to function for the majority of this project and plan for a 1 week

cutover (outage) to the new transformer when ready near the end of the project. This will require the contractor to follow the sequence below:

- During demolition (Sheet E-103) – Open bay 2 600A 12.47KV switchgear disconnect deenergizing the 1250L, 1700L and 2000L.
- Remove #1/0 3/C, 5KV cable from the 1500KVA transformer secondary that feeds the pump room Benshaw. The #1/0 3/C, 5KV splice shall remain on the transformer secondary that feeds the existing Benshaw #2 (Modified) that powers the 1700L & 2000L
- Close bay 2 600A 12.47KV switchgear disconnect energizing the 1700L and 2000L.
- The contractor shall complete the project as shown on the drawings. Near the project's completion, the contractor shall plan for the final cutover. This will include installing the 5KV switchgear and all terminations, and receiving & staging the new 1500KVA dry type transformer before the final cutover to minimize the duration to no more than 1 week.
- Final cutover (1 week outage planned 3 weeks in advance) - Open bay 2 600A 12.47KV switchgear disconnect deenergizing the 1250L, 1700L and 2000L.
- Complete the electrical work as shown on sheets E-103 & E-203. This includes removing the legacy 1500KVA oil filled transformers, existing Benshaw #2 (Modified) and all associated conductors. Installing the new 1500KVA dry type transformer, installing the 5KV switchgear, and installing all conductors and terminations shown on sheet E-203.
- Close bay 2 600A 12.47KV switchgear disconnect energizing the 1250L, 1700L and 2000L

The above sequence will require the contractor to plan this outage and install as much equipment as possible prior to the outage to limit its duration.

5. TECHNICAL EVALUATION CRITERIA:

A best value selection process will be used to award this contract. The selection criteria are listed below. Selection will be made based on tradeoffs between price and non-price evaluation criteria.

a. The offeror's total project package including proposed project team and other technical requirements defined in this document.
b. Specialized experience and technical competence in:
    - *Industrial piping installation*
    - *General industrial construction*
    - *Industrial electrical installation*
c. Construction safety practices, procedures, and safety record relating to the scope of work.
d. Qualified professional personnel in the following key areas:
    - *Project management*
    - *Site supervision*
    - *Pipe fitting & Welding*
    - *Millwright*
    - *Industrial electrical*
e. Past performance on SDSTA, US Department of Energy, State of South Dakota or other contracts with respect to cost control, quality of work, and compliance with performance schedules.

6. SUBMISSION REQUIREMENTS:

Submission Requirement: General

To be eligible for contract award, a firm must be registered as a business entity with the South Dakota Secretary of State.

Proposals should be provided in digital format as a pdf file with standard letter size format. Note that there is a **50-page** limit for proposals. Proposals must contain the following:

- Description of the working relationship between each of the overall team members, including a personnel specific organization chart. Note that the named subcontractors and outside associates or consultants must be used for project execution, and any change must be approved in advance by the SDSTA.
- Primary points of contact for the proposed team.
- Description of the approach to cost and schedule control. What tools are used and how is information to be communicated to the project team and SDSTA?
- Any exceptions to the Draft Contract (2025-19), General Conditions Agreement (2025-19), or other RFP materials.

Submission Requirement: Similar Projects

Describe at least 5 similar projects that the Contractor/Subcontractor has installed and commissioned within the past ten years. Example projects should be of similar size and complexity and showcase the offerors experience with pipe fitting and precise installation of industrial machinery. Examples should note the customer, location, and date of the project.

Submission Requirement: Installation Process

Provide the following descriptions/narratives to help SDSTA understand the offeror's proposed installation plan and how that plan is adequately captured in their project cost and schedule.

- How the offeror plans to handle piping installation (example options below) knowing the system has complex geometry and will require multiple special pieces.
  - Field cut specials and field measured piping installation.
    - What equipment will be used for this and how will this be completed efficiently on the level (list any specialty equipment needed)?
  - 3rd party piping design services with pre-fabricated piping sections and layouts.
    - How will the offeror verify the pre-fabricated design is accurate vs existing conditions in the pump room?
    - How will the offeror handle the measuring/cutting of any specials needed (list any specialty equipment needed)?
- How the offeror plans to handle general project fabrication needs for this project such as welding, cutting, & millright type work (list any specialty equipment needed).
- How the offeror plans to handle materials and loads on the surface as well as underground (list any specialty equipment needed).

- The offeror's general plan for installing the pump base, pump, & motor calling out the visits for the DXP rep.
- Other key means and methods.

Submission Requirement: Safety

Provide a description of the safety programs of contractors and subcontractors who would be performing work at SURF under this contract. Demonstrate the firm's understanding and awareness of all ESH issues that will be present on this project.

- Include safety records for the past five years (incident/injury records, OSHA 300 logs, and EMR data) of contractors and subcontractors who would be performing work at SURF under this contract.

Submission Requirement: Quality Control

Provide a description of the QC programs of contractors and subcontractors who would be performing work under this contract. QC manuals will not count toward the 50-page limit.

Submission Requirement: Qualifications

Provide resumes for key personnel proposed for this project that are listed below:

- Project manager
- Project superintendent
- Millwright

Resumes should include qualifications, certifications, and experience in the specific role proposed with relevant projects demonstrating proficiency.

Submission Requirement: Schedule

Proposed schedule/work plan. Offerors shall provide the basic schedule, outlined below, and specific number of calendar days required for project completion after Notice to Proceed (NTP) on Attachment E (SDSTA bid sheet):

- Lead time
- Mobilization
- Construction
- Demobilization
- Project Complete (total days)

Total days will be used to establish the contract completion date. Note that liquidated damages of $250/day will be applied for additional schedule days after the approved contract completion date.

Submission Requirement: Price

Provide a project pricing breakdown using the SDSTA bid sheet. The offeror's fixed price shall constitute full payment for the work, materials, services, quality control testing, other items required, and include all applicable federal, state use, sales, and local taxes, duties, permits, bonding, and all the Subcontractor's other obligations related to such work.

Submission Requirement: Mandatory Site Visit

All offerors are required to attend an onsite **pre-proposal conference & site visit** on **October 10, 2025**, from **7:30-10:00 a.m. MT** at SURF, 630 East Summit Street, Lead South Dakota. **Pre-registration is required**. Email Bill Kelly at wkelly@sanfordlab.org and cc David Raad at draad@sanfordlab.org by **4:00 pm October 7, 2025**, to receive instructions and directions. Please note, only **2 representatives per contractor**. Only companies represented at the pre-proposal conference will be eligible to submit proposals. Contractors' subcontractors are encouraged to attend. If they do, they may attend in addition to the contractor's 2 representatives.

7. DELIVERABLES:

Refer to SDSTA Division 1 and other technical specifications for deliverables required after contract award but before the start of work and during project execution. While not a complete list, key deliverables include:

- Safety Plan
- Quality Control Plan
- Environmental Protection Plan
- Construction Schedule
- Schedule of Prices
- Submittal Register
- Shop Drawings
- Contractor Daily Reports
- Test Reports
- As Built Drawings
- O&M Manuals and Warranties
- *Electrical load flow, coordination, and arc-flash study reports.*
- *Equipment labels per applicable codes and standards.*

8. PROPOSALS DUE:

Offerors should submit an electronic copy (pdf format) of the proposal no later than **2:00 p.m**. on **November 4, 2025**, to draad@sanfordlab.org. Late submissions will not be accepted.

Questions are due by **4:00 pm** on **October 21, 2025**.

Questions & Answers will be emailed to all prospective offerors and posted to the sanfordlab.org website no later than **4:00 pm October 23, 2025**.

Proposals shall be valid for 90 days. 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 offerors by SDSTA.

All communications regarding this procurement between RFP release and award shall be directed by email to Bill Kelly at wkelly@sanfordlab.org and David Raad at draad@sanfordlab.org. Communications with other SDSTA staff regarding this procurement in advance of the award are not allowed.

9. Additional Information:

Offeror Safety Training:

The Offeror shall plan to have all the employees coming to site receive some level of safety training depending on time spent on site or previous training received at the SDSTA. The training categories are listed below:

- SURF Safety Orientation for new workers who intend to be onsite <40 hours/year includes the surface safety orientation video, underground safety orientation video, and the IMS training document. – Estimated to take about 45 minutes
- General Safety Basic (GSB) class for new workers who intend to be onsite >40 hours/year includes a PowerPoint formatted training. – Estimated to take about 4 hours
- Annual refresher training for returning underground personnel includes the surface safety orientation video, underground safety orientation video, and the IMS training document. – Estimated to take about 45 minutes

The SDSTA also requires that at least one "guide" trained individual is on the work crew. The offeror shall plan to have at least two employees, primary and backup, guide trained for the areas they will work in. Guide training consists of the following:

- SURF Guide Classroom Orientation that will familiarize the guide with the work area, communication methods, and systems to allow work underground without continuous SDSTA supervision. – Estimated to take about 6 hours
- SURF Guide Field Orientation that will involve 3 trips to the work area with an SDSTA safety representative to demonstrate competency in the training received above. These trips can be done concurrently with the work when the SDSTA safety representative visits the work area– Estimated to take about 6 hours total

All training needs to be administered by an SDSTA authorized individual and training is preferred to be given onsite (but can be done over Zoom if needed). SDSTA offers orientation and refresher classes each day at 7:30am, Mon-Fri and offers General Safety Basic (GSB) every other Monday. Guide training will be scheduled as needed.