

South Dakota Science and Technology Authority

**Board Meeting
September 21, 2023**



630 East Summit Street
Lead, SD 57754

Call to Order—Chairperson Casey Peterson

1A. Call Roll

Dr. Ani Aprahamian
Mr. Dana Dykhouse
Dr. Chris Fall
Ms. Pat Lebrun
Mr. Roger Musick
Mr. Casey Peterson
Mr. Ron Wheeler
Dr. Laurie Nichols, ex-officio member
Dr. James Rankin, ex-officio member

1B. Introduce guests—ask to announce name and affiliation

1C. Public comment form (submit forms prior to start of board meeting)

Procedure for Public Comment Periods

Pursuant to SDCL 1-25-1 as amended by House Bill 1172 in the 2018 Legislative Session the procedure for conducting public comment periods during meetings of the South Dakota Science and Technology Authority (SDSTA) shall be as follows:

The chair of the SDSTA shall reserve a period for public comment, limited at the chair's discretion, at each meeting.

Before the beginning of the meeting, all persons who wish to make comments during the comment period shall indicate their desire to do so on a form that will be provided by the Executive Director. The form shall indicate the person's name, city of residence and generally describe the matter or matters on which the person wishes to comment.

The amount of time allocated to each interested person who wishes to make comments will be determined at the chair's discretion at each meeting.

Comments must be limited to matters which are under the jurisdiction of the SDSTA.

All persons making public comments at meetings of the SDSTA must do so in a manner that maintains civility. Comments which contain offensive language or profanity will not be tolerated.

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Approve Agenda—Chairperson Casey Peterson

Attached is the SDSTA Board agenda for the September 21, 2023 meeting.

See recommended motion below.

Recommended Action:

Motion to approve agenda as presented.

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AGENDA

South Dakota Science and Technology Authority Meeting of the Board of Directors

Thursday, September 21, 2023 at 8:00 AM (MT) / 9:00 AM (CT)

**Location: Washington Pavilion
Executive Boardroom, 4th Floor
301 S. Main Avenue, Sioux Falls, South Dakota**

Public (Open) Session: 1-669-900-6833, Meeting ID: 605 722 4000, Passcode: 8650, <https://zoom.us/join>

SDSTA Mission: *We advance world class science and inspire learning across generations.*

NOTICE: Members of the public may listen to the meeting by calling 1-669-900-6833 and entering Meeting ID code: 605 722 4000. Please announce your name and affiliation after joining then mute your phone.

Title	Report	Recommendations
1. Call to order	-- Chair Casey Peterson	
A. Call roll		1A. Confirm quorum by calling roll
B. Introduce guests		1B. Ask guests to announce their name/affiliation
C. Public comment form		1C. Ask if there are any public comment form(s) submitted and announce time will be given at the end of the agenda to discuss
2. Approve agenda	-- Chair Casey Peterson	Motion to approve agenda
3. Approve minutes	-- Chair Casey Peterson	Motion to approve the June 22 minutes
4. Conflict of interest disclosure	-- Mr. Tim Engel	Informational
5. Conflict of interest disclosure and waiver under SDCL CH. 3-23	-- Mr. Tim Engel	"Motion to approve or deny" (as appropriate)
6. Approve SDSTA By-laws as amended	-- Mr. Tim Engel	Motion to approve SDSTA By-laws as amended
7. SURF Foundation update	-- Ms. Michelle Kane	Informational
8. Audit Committee Report update	-- Chair Casey Peterson -- Ms. Pat Lebrun	See board packet for audit committee minutes and audit charter
9. Financial Report	-- Mr. Mike Headley	
A. Financial statements	-- Mr. Terry Miller	
B. Insurance update	-- Mr. Tim Engel	
C. Amend FY2024 budget to approve planned 4850L expansion costs, insurance and SURF Institute costs		9C. Motion to approve FY2024 budget as discussed and amended

Please do not place or accept cell phone calls during this meeting. A copy of this agenda has been posted in a manner visible to the public at the entrance to the South Dakota Science and Technology Authority office located at 630 East Summit Street, Lead, South Dakota at least 72 hours prior to this meeting. Telephone: (605) 722-8650.



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Title	Report	Recommendations
D. SD Investment Council letter		9D. Motion to approve interest earning accrual at percentage discussed for fiscal year 2023 Informational
E. FY end inventory listing		Informational
F. FY end per diem listing		Motion to accept report as presented
10. Report from Executive Director	-- Mr. Mike Headley	
A. Declarations of Surplus		Informational
B. SDSTA quarterly update		Informational
C. Science update	-- Dr. Jaret Heise	Presentation
D. LBNF/DUNE update	-- Mr. Josh Willhite	Presentation
		Motion to accept executive director's report
11. Approve LBNF/DUNE Lease Agreement Modification	-- Mr. Mike Headley	Motion to approve modification to the LBNF/DUNE Lease Agreement between the South Dakota Science and Technology Authority and the United States Department of Energy and authorize the SDSTA Chairperson to sign the Agreement
12. Approve amended MOU between SDSTA and Fermi Research Alliance (FRA)		Motion to approve the Memorandum of Understanding between SDSTA and FRA as amended and authorize the SDSTA Executive Director to sign the MOU
13. Executive session (closed meeting)	-- Chair Casey Peterson	Motion to enter executive session to discuss personnel matters and to consult with legal counsel concerning contractual and legal matters—SDCL 1-25-2(1), (3) and (4); 19-19-502.
14. Report from executive session	-- Chair Casey Peterson	"The board consulted with legal counsel concerning contractual and legal matters. No action was taken." OR ...as discussed and stated otherwise

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Title	Report	Recommendations
15. Confirm date, time and location of next meeting	-- Chair Casey Peterson	<i>Thursday, December 14, 2023 at 9:00am (MDT)/10:00am (CDT) held at the Elevate Board Room in Rapid City and via Zoom</i>
16. Public comments	-- Chair Casey Peterson	
17. Board comments	-- Chair Casey Peterson	
18. Adjourn	-- Chair Casey Peterson	<i>Motion to adjourn</i>
<i>Noon: Lunch for board members and staff will follow in the Washington Pavilion cafeteria, 1st Floor. 1:00pm (CT): Ribbon Cutting Ceremony at Kirby Science Discovery Center, "H₂O Workshop" exhibit.</i>		

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**Meeting of the Board of Directors
Thursday, September 21, 2023**

SDSTA Board Member Terms of Service, Committees and Schedule

	Board Members and Terms of Service		
	Board Members	Appointed	Term Expires
1.	Dr. Ani Aprahamian	Re-appointed January 7, 2022	December 9, 2027
2.	Mr. Dana Dykhous, Vice-Chair	Re-appointed August 15, 2020	August 14, 2026
3.	Dr. Chris Fall	Appointed December 1, 2021	August 8, 2027
4.	Ms. Patricia Lebrun, Secretary-Treasurer	Re-appointed August 8, 2022 SDCL 1-7-1.1	August 8, 2028
5.	Mr. Roger Musick	Reappointed August 8, 2022 SDCL 1-7-1.1	August 8, 2028
6.	Mr. Casey Peterson, Chair	Re-appointed December 1, 2021	August 8, 2027
7.	Mr. Ron Wheeler	Re-appointed April 28, 2020	April 9, 2026
8.	<i>Dr. Laurie Nichols, ex-officio member</i>	<i>Black Hills State University (BHSU) President</i>	
9.	<i>Dr. James Rankin, ex-officio member</i>	<i>South Dakota School of Mines & Technology (SD Mines) President</i>	
	Committees and Members (2023-2024)		
	Audit Committee Members (Selected in June):	Nominating Committee Members (Selected in March):	
	➤ Pat Lebrun-Chair	➤ Dana Dykhous	
	➤ Dana Dykhous	➤ Roger Musick	
	➤ Roger Musick		
	➤ Casey Peterson, ex-officio		
	2023 Board Schedule		
	Thursday, March 16 2023	8:00 am (MT)	E&O Bldg
	Thursday, June 22, 2023	8:00 am (MT), annual	E&O Bldg
	Thursday, September 21, 2023	8:00 am (MT) / 9:00 am (CT)	Washington Pavilion, Sioux Falls
	Thursday, December 14, 2023	9:00 am (MT) / 10:00 am (CT)	Elevate, Rapid City

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Approve Minutes—Chairperson Casey Peterson

Attached are the June 22, 2023 Minutes for approval.

See recommended motion below.

Recommended Action:

Motion to approve the June 22, 2023 Minutes as presented.

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South Dakota Science and Technology Authority Board of Directors
Meeting Minutes
Thursday, June 22, 2023
Lead, South Dakota

The Board of Directors of the South Dakota Science and Technology Authority (SDSTA) convened at 8:09 AM Mountain Time (MT) on Thursday, June 22, 2023, in the Education and Outreach (E&O) Building Conference Room at the South Dakota Science and Technology Authority, 630 East Summit Street, Lead, South Dakota. A conference number was posted on the agenda with an invitation for members of the public to participate in the meeting by telephone.

MEMBERS OF THE BOARD IN ATTENDANCE

Dr. Ani Aprahamian (by videoconference)
Vice Chairperson Dana Dykhouse (by videoconference)
Secretary/Treasurer Patricia Lebrun (in person)
Chairperson Casey Peterson (in person)
Mr. Ron Wheeler (by phone)

MEMBERS OF THE BOARD ABSENT

Dr. Chris Fall
Mr. Roger Musick
Dr. James Rankin, ex-officio

SDSTA STAFF PRESENT DURING ALL OR PART OF THE MEETING

Ms. Christine Burger, Human Resources Manager (in person)
Mr. Tim Engel, General Counsel (in person)
Mr. Mike Headley, Executive Director (in person)
Ms. Michelle Kane, SURF Foundation Director (in person)
Mr. Bill Kelly, Contracts & Procurement Manager (in person)
Ms. Mandy Knight, Administrative Services Manager (in person)
Mr. Terry Miller, Chief Financial Officer (in person)
Ms. Wendy Straub, Hoists and Shafts Director (in person)
Ms. Constance Walter, Communications Director (in person)
Ms. Juliet Winger, Communications Specialist (by phone)
Ms. Deb Wolf, Outreach & Culture Director (in person)
Ms. April Yenglin, SURF Foundation Support Specialist (in person)

ALSO PRESENT DURING ALL OR PART OF THE MEETING

Mr. Paul Christen, former SDSTA Board Member
Mr. Patrick Malone, Chief Sustainability Officer for Dakota Gold
Ms. Wendy Pitlick, Journalist for Black Hill Pioneer
Mr. Joshua Willhite, LBNF Far Site Conventional Facilities (FSCF)-Building and Site Infrastructure (BSI) Project Manager

ITEM 1. CALL TO ORDER

Chairperson Casey Peterson called the meeting to order at 8:09 AM (MT). Roll call was held and a quorum declared. Dr. Ani Aprahamian, Mr. Dana Dykhouse and Mr. Ron Wheeler joined by videoconference and phone. Ms. Pat Lebrun and Chairperson Peterson were present in person. Dr. Chris Fall, Mr. Roger Musick and Dr. Jim Rankin were absent.

Chairperson Peterson asked guests to introduce themselves.

Chairperson Peterson said if anyone from the audience had any questions or comments for the Board to address, to please complete the public comment form located at the sign-in table and time will be given at the end of the agenda to discuss. No comment forms were submitted during the meeting.

ITEM 2. APPROVE AGENDA

Chairperson Peterson asked if there were any modifications to the agenda. Hearing none, Chairperson Peterson asked for a motion to approve the agenda.

Motion by Mr. Dykhouse and seconded by Dr. Aprahamian to approve the agenda as presented. Motion passed unanimously.

ITEM 3. APPROVE MINUTES

Chairperson Peterson asked for any comments on the March 16 and June 6, 2023, Minutes. Hearing none, he asked for a motion to approve the minutes.

Motion by Mr. Wheeler and seconded by Mr. Dykhouse to approve the March 16 and June 6, 2023 Minutes as presented. Motion passed unanimously.

ITEM 4. GENERAL CONFLICT OF INTEREST DISCLOSURE

SDSTA General Counsel Mr. Tim Engel invited members of the Board to disclose anything that might be construed to be a conflict of interest with respect to items under consideration at today's meeting.

No conflicts of interest were disclosed.

ITEM 5. DISCLOSURES AND WAIVER UNDER SDCL CH. 3-23

Mr. Engel said he contacted all Board members before the June 22, 2023, board meeting and asked them to make any disclosures required by SDCL CH. 3-23. He said no disclosures were reported.

ITEM 6. SURF FOUNDATION

ITEM 6A. CONFIRMATION OF RE-ELECTION

SURF Foundation Director Ms. Kane asked the Board to confirm the re-election of Mr. Fred Romkema for a second term to the SURF Foundation board.

Motion by Ms. Lebrun and seconded by Mr. Dykhouse to confirm the reelection of Mr. Fred Romkema to the SURF Foundation Board for an additional 3-year term. Motion passed unanimously.

ITEM 6A. FOUNDATION UPDATE

Ms. Kane said that she has been in her new position for six months and the last three months have been very exciting. She shared short term wins, where The Institute for Underground Science at SURF is going, where the SURF Foundation is going next and how it is going to get there.

Ms. Kane reminded the Board that the SURF Foundation does not have its own social media presence but as an active social media user, Ms. Kane is helping to amplify what SURF is doing. All the messaging of what is happening on LinkedIn, Facebook, Twitter facilitates reaching the public, and she wants the public to be curious about SURF and ask questions. She encouraged the Board to connect and share that information with others. In the last three months, Ms. Kane said she wrote three grants and received funding for all three. The funding has brought approximately \$40,000.00 to the Foundation, which includes support for the following: Neutrino Day (met fundraising goal), innovative educator professional development program focused on rural educators virtually, fully funding an internship, and helping to build a strong foundation which equates to a strong infrastructure—making sure tools, processes and efficiencies are in place.

Ms. Kane welcomed new SURF Foundation Support Specialist Ms. April Yenglin. Ms. Yenglin will manage the administrative components of the Foundation, donor database and project management database. Ms. Kane then discussed The Institute for Underground Science at SURF and referred to the prototype program named Center for Underground Theoretical Physics and Related Areas (CETUP*), that began on June 18. This is a four-week summer workshop held in Lead, South Dakota and includes over 70 researchers, scientists and graduate students. This program matters to SURF because CETUP* is the type of program that will be part of The Institute in the future. As a reminder, Ms. Kane and Mr. Headley said 22 CETUP* participants have been invited to a lunch to meet the board of directors from the SDSTA and Foundation along with a few SDSTA staff; it is being held at the Sanford Lab Homestake Visitor Center (SLHVC) today at noon.

Ms. Kane said current work on The Institute includes: the website, video clips and tools to help share what The Institute is and create partnerships, sponsorships and relationships with donors. She said the website will be launched in conjunction with Nobel Day in December and details will be shared as the event draws nearer. She said she is working on a strategic plan and is drafting a request for proposal to help the Foundation define the scope of work and map out the future. The focus for the Foundation is to raise funds for existing programs (*Deep Talks*, summer internships, Davis Bahcall Scholars, education programs and the Sacred Circle Garden).

Ms. Kane said the Sacred Circle Garden construction is on track. RCS Construction is expected to start the end of June. Also, messaging, website updates and grant opportunities are in review. She thanked Chairperson Peterson for sharing insight with the Garden Committee. She said programming discussions are in the works with an expected start the spring of 2024. Partnership talks are in the works for Native arts installation and Phase 2 assembly area construction; she is working on a grant to support this project. Lastly, there is a kick-off party scheduled on August 22 at the SLHVC.

Ms. Kane showed a slide with logos of all the sponsors supporting the 15th Annual Neutrino Day free science festival, which will held on Saturday, July 8, 2023.

She then discussed SURF's 2035 long-range goal: The SURF Institute will be constructed and fully operational, offering compelling, vibrant science and education programs. This year, the Foundation is going to create a nationwide marketing and fundraising campaign with the Communications Department to launch The Institute for Underground Science at SURF as well as complete the construction of the Sacred Circle Garden.

In conclusion, Ms. Kane said there are several upcoming events in the next three months: June 22 Luncheon SDSTA/Foundation Board/CETUP*, next week RCS Construction starts The Sacred Circle Garden project; July 7, 5 p.m. – 7 p.m., Neutrino Day Kick-Off Party, July 8, 9 a.m. – 5 p.m., Neutrino Day, July 20, 10 a.m., summer intern presentations at SURF, July 21, Washington Pavilion Exhibit Ribbon Cutting, July 22, SURF Day at Washington Pavilion and August 22 Sacred Circle Garden Kick-Off Party. The next Foundation board meeting is September 21, 2023, at the Washington Pavilion in Sioux Falls.

Ms. Kane said SURF has sponsored a water exhibit at the Washington Pavilion. A ribbon cutting will be held on July 21 and a free admission “SURF Day” will be held on Saturday, July 22. This will be a great opportunity for the Foundation to connect with East River and continue to celebrate what SURF is doing and help build awareness. Mr. Headley extended an invite to all Board members to partake in the ribbon cutting and “SURF Day” in Sioux Falls.

Ms. Lebrun acknowledged all the work being done by Ms. Kane thanked her and the SDSTA team for their efforts to support the Foundation.

ITEM 7. AUDIT COMMITTEE

ITEM 7A. ANNUAL APPOINTMENT OF MEMBERS

Chairperson Peterson reported the appointment of Ms. Lebrun, Mr. Dykhous and Mr. Musick to continue to serve on the audit committee and asked for a motion to confirm the appointments.

Motion by Mr. Dykhous and seconded by Mr. Wheeler to approve the appointment of audit committee members as presented. Motion passed unanimously.

ITEM 7B. ACCEPTANCE OF AUDIT REPORT, FISCAL YEAR ENDED JUNE 30, 2022

Ms. Lebrun said the audit report was presented to the Board at the March 16, 2023, meeting for discussion and is now being presented for approval.

Motion by Ms. Lebrun and seconded by Mr. Wheeler to accept the Audit Report for the Fiscal Year Ended June 30, 2022, as reviewed and discussed at the March 16, 2023, board meeting. Motion passed unanimously.

Chairperson Peterson thanked the Audit Committee members for their time commitment outside of regular board meetings.

ITEM 8. FINANCIAL REPORT

ITEM 8A. REVIEW FINANCIAL STATEMENTS

Mr. Miller referenced the financial statements for the April 30, 2023, reporting period included in the board packet and reviewed highlights. He said as of April, the SDSTA was behind on the Cooperative Agreement (CA) budget; however, SDSTA is awaiting an incremental funding modification to the CA which should help balance the budget. Based on the Board's acceptance of the \$13 million appropriation—Senate Bill 35—for underground expansion, Mr. Miller said the cash and revenue are included in the statements. Regarding fixed assets, he noted that \$1.6 million was included for the tuckpointing and roof drain infrastructure improvement project. Also, the money from the sale of a portion of the xenon has been received and the three foundations loans (South Dakota Community Foundation, University of South Dakota Foundation and South Dakota State University Foundation) have been paid down with each loan almost cut in half. He said the interest rate on the loans are 2.5% and Ms. Lebrun commented that the loan rate charged by the Foundations is very good compared to the going rate.

Mr. Miller said the \$13 million deposited into the SDSTA account is drawing interest through the state, and for bookkeeping purposes the accrual is the 1% approved by the Board last year. Mr. Miller then asked if there were any questions.

Chairperson Peterson asked what the June 30 statement will look like with assets transfer since \$14 million is being shown as a net increase. Mr. Miller replied that the \$14 million will stay in place until the end of the year and then as the underground expansion constructions gets underway, the project will be capitalized over the years. In regard to moving fixed assets, Mr. Miller said a few have been moved - approximately \$4 million.

Motion by Mr. Wheeler and seconded by Dr. Aprahamian to accept the financial report as presented. Motion passed unanimously.

ITEM 8B. APPROVAL OF FY2024 BUDGET

Mr. Miller said there is a slight increase in the FY2024 budget as it relates to SDSTA funds due to construction of the Sacred Circle Garden for \$614,000.00 and the engineering design phase of expansion construction by Thyssen Mining Inc. for \$800,000.00.

He said there is an increase for xenon insurance—from \$190,000.00 to \$350,000.00—driven by a growth in value of xenon. Also, there are four FTEs that have moved to indirect funds; these are the four Black Hills State University staff who will transition to SDSTA employees. Also, the SLHVC budget slightly decreased due to the Director’s payroll moving to indirect funds as it was determined that role is beyond the work performed for the SLHVC.

He then discussed the \$22.5 million budgeted for FY2024 and said it includes \$17.1 million for the CA and \$5.4 million for infrastructure improvement projects (IIPs). In regard to the CA, the dollars have been allocated between labor and non-labor at 70% and 30%, respectively. The budget decreased slightly due to less money allocated for IIPs.

FRA Ross logistics support increased mainly due to labor and FRA/LBNF grounds-keeping support is budgeted for a full year compared to only half a year. Ms. Lebrun asked what is “grounds keeping” and Mr. Headley replied that it is a collection of ground support activities such as servicing porta potties, removing snow, etc. that Kiewit Alberici Joint Venture (KAJV) was performing but SDSTA will now perform at the request of Fermi Research Alliance (FRA).

Mr. Miller said there is a new contract with Geothermica for \$50,000 to use equipment that was formerly Stimulation Investigations for Geothermal Modeling Analysis and Validation’s (SIGMA-V’s).

Chairperson Peterson asked about SIGMA-V and if there is abandonment cost. Mr. Headley said several of the members from the former SIGMA-V project make up Geothermica and there was very little equipment left behind. The project is funded by the Department of Energy (DOE) through Pacific Northwest National Laboratory.

Motion by Ms. Lebrun and seconded by Mr. Dykhouse to approve and adopt the FY2024 budget as presented. Motion passed unanimously.

ITEM 9. REPORT FROM EXECUTIVE DIRECTOR

ITEM 9A. DECLARATIONS OF SURPLUS

Mr. Headley referenced the Declaration of Surplus included in the board packet and said the items are primarily equipment that have been identified for scrap. He asked if there were further questions and there were none.

ITEM 9B. SDSTA QUARTERLY UPDATE

Mr. Headley began his update with SURF highlights, which included the following: 1) LBNF excavation is 68% complete and on schedule. He said planning for outfitting and cryostat installation is underway. 2) Institute for Underground Science at SURF kickoff planning is underway as well as the CETUP* workshop are underway. 3) Funds are in hand for Phase A of the 4850L expansion. A contract has been signed with Thyssen Mining Inc. Design is underway to be completed by the end of 2023 in preparation for excavation the first six months of 2024. A working group has been established made up of Dr. Mike Procario from DOE/High Energy Physics, individuals from Fermilab and the LBNF project, the DOE site office at Fermilab, Mr. Headley, and SDSTA Engineering Director Mr. Al Stratman has been established to ensure SDSTA excavation work will not impact the LBNF/DUNE activities. 4) SDSTA has provided significant input into the P5 strategic planning process. Dr. Heise and Mr. Headley have attended meetings and provided presentations. 5) Yates Shaft heavy maintenance continues and reached 1100L in May (plan was July) and crews are now at the 1,200-foot mark. The crew is planning to reach the 4100L in mid-2024. 6) The new Oro Hondo ventilation fan is in operation. This was advanced due to downtime of on older fan but both fans are now operable with 100% redundancy capability. 7) Education and Outreach had another great year supporting students in SD. 8) Efforts are underway to “get out the word” about SURF in South Dakota, including advertising at the Rapid City

Regional Airport and sponsorship of a display at the Washington Pavilion in Sioux Falls. 9) A Washington Pavilion ribbon cutting is planned for July 21 at 11:30 am CT. “SURF Day” at the Washington Pavilion is set for July 22. 10) SDSTA hosted the SD Joint Committee on Appropriations for a site visit on June 19. 11) An LBNF/DUNE congressional briefing is being held in Washington D.C. today (June 22); SDSTA Science Director Dr. Jaret Heise is representing SURF. 12) A Congressional Staff delegation visit is being planned within an August 23, 24, 25 window.

Mr. Headley showed several slides as he discussed the SURF highlights. He said regarding the excavation design work, SDSTA is optimizing the Phase A drift to be shorter to fit within the \$13 million available, but also to meet the functional goals. Mr. Engel pointed out that all the rock from this excavation work will be stored underground and Mr. Headley concurred.

Mr. Headley said the K-12 E&O scope has been the same as the last few years. Prior to COVID, E&O was working with approximately 12,000-13,000 student per year and this year student contacts increased to approximately 18,000 in a virtual format. In addition, E&O has been working with 500+ teachers each summer for professional development. He commended the team for all their efforts.

Chairperson Peterson asked why curriculum unit totals were down this year and Outreach and Culture Director Ms. Deb Wolf responded that E&O did a better job promoting field trips this year compared to the curriculum units, hence, the fluctuation in numbers from this time last year. Also, she said the E&O team is at capacity for total work.

Mr. Headley concluded his update with photos of the 2023 Davis-Bahcall Scholars and SURF summer interns. Presentations from all the individuals will be in July and also will be live-streamed.

ITEM 9C. HOISTS & SHAFTS UPDATE

Ms. Straub began her presentation by sharing a schedule of the Yates Shaft top down maintenance (TDM) activities. She said new survey points were added in the upper shaft (based on the quarterly survey performed by a third party surveyor). The crew transitioned to split set rock bolts for cost and efficiency, which will be replaced with permanent ground support during full shaft rehabilitation. She said 20+ sets below the 800L were completed by RCS in 2009 and are in good condition. The schedule was re-baselined in May to reflect efficiency improvements and there is one Infrastructure Technician vacancy left to fill. Ms. Straub said there are 18 total individuals (four infrastructure technicians per crew and two top landers) working on the project on a 24/7 basis.

Ms. Staub shared several photos illustrating the TDM progress from stabilization of boulders, Yates Shaft timber replacement and TDM at the 1100L Station. She said Yates TDM next steps include: 1) Evaluating conditions when TDM is complete in all compartments to the 1700L – can SDSTA support CAT operations on the 1700L in a modified capacity? 2) Evaluating conditions when TDM is complete to the 2600L in all compartments – can SDSTA support more deliveries via the Yates Shaft? 3) Once TDM is complete in all compartments to the 3650L (TDM is complete in cage panels from the 3650L – 19 sets above the 4850L in the cage compartments), crews will transition back to the northeast utility compartment with full TDM until the boulders below the 4100L are reached.

Chairperson Peterson asked when the crews expect to get to the 1700L and 2600L and Ms. Straub replied 1700L in April 2024 and the boulders in July of 2024. It will be late next year before the Yates will be able to provide some relief for the demands on the Ross.

ITEM 9D. LBNF EXCAVATING TO OUTFITTING UPDATE

Mr. Willhite started his presentation with an illustration of the Long Baseline Neutrino Experiment/Deep Underground Neutrino Experiment (LBNF/DUNE) and said the project begins with an accelerator that exists at Fermilab in Batavia, IL (Near Site Facility) which will generate an intense beam of neutrinos

that will travel through the earth to SURF (Far Site Facility). The LBNF/DUNE project is very large and is divided into five subprojects with three here at the Far Site, which his presentation is focused on. He said the subprojects are fairly new, and reviewed acronyms to familiarize the Board: FSCF-EXC (Far Site Excavation), FSCF-BSI (Far Site Buildings & Site Infrastructure) also referred to as “outfitting” and FDC (Far Detectors and Cryogenic Infrastructure). He then showed several photos of the excavation progress: east end of the North Detector Cavern, South Detector Cavern, and the Central Utility Cavern (CUC), CUC Concrete, and South Drift rail installation. Mr. Willhite said excavation Progress is 68% complete. He noted the 68% progress is drill and blast excavation only, not the entire project. He reviewed the cavern excavation completion percentages and then discussed the BSI bidding progress. He said 23 packages are planned (+/-), five package proposals are in hand and two packages are in process. The contractor pool is mostly regional (Rapid City, Spearfish, Lead/Deadwood and Gillette, WY). He anticipates a similar number of people working onsite at SURF during the BSI phase as now, but divided among many firms. He said work is planned to begin in summer of 2024.

With regard to the Far Detector and Cryogenics (FDC) Status, a Fermilab Director’s Review was being held at Fermilab simultaneous with the SDSTA board meeting. The review is a dry-run of review materials to prepare for a DOE CD-2/3 review planned for September 2023. There has already been some FDC construction funding approved (CD-3a) but this if for the rest of the project; the hope is to have approval by the end of 2023. He said steel deliveries are planned to start this fall, which will roughly double the project team on site during this time. ProtoDUNE detectors have proven technologies for FD1 and FD2. In conclusion, he gave an LBNF/DUNE logistics overview and cited the Anode Plane Detectors that arrived at SURF last fall. The Anode Plane Array Shipping Frame (ASF) Test Lift departed from Fermilab on August 29, 2022, arrived at SURF on September 1 and was successfully tested on September 2, 2022. He said the SDSTA team performed perfectly in getting this test completed and built the confidence that this work can be done in the future. Mr. Headley pointed out that SDSTA has 20 master riggers onsite, so every one of the SDSTA crews has at least one master rigger onsite which is a huge step for SURF; 250 slung loads have already been completed for the project. Mr. Willhite said another notable thing that has arisen from this week’s review is whether there is enough shaft capacity for the BSI and FDC work that is coming up? What is being projected is shaft demand will go down from what SDSTA has been providing for the past six months because excavation needs so much concrete—there will be continuous flow of concrete—and the capacity does exist. (Three to four super sacks are loaded in the cage at a time and they have averaged 74 loads per day). The speed of the cage has increased for supplies and that has also helped.

Motion by Dr. Aprahamian and seconded by Mr. Dykhouse to accept the executive director’s report as presented. Motion passed unanimously.

ITEM 10. SDSTA POLICIES AND PROCEDURES

ITEM 10A. ANNUAL REVIEW OF PY & PP

Mr. Headley said Policy (PY) and Policy-Procedure (PP) updates were included in the board packet and pointed out that the Publication Policy is being retired from the manual and will be included in the Science Department’s procedures. The remaining updates to PYs and PPs are to make them current with SDSTA operations. He asked if there were any questions and there were none. Mr. Engel mentioned that his office reviewed all the updated policies and procedures.

Motion by Mr. Wheeler and seconded by Dr. Aprahamian to approve the updated Leave Policy, Records Retention Policy, Travel Approval and Reimbursement – Employees Policy and Procedure and retire the Publication Policy from the SDSTA Manual, as presented. Motion passed unanimously.

ITEM 10B. ANNUAL STATEMENTS AFFIRMING COMPLIANCE WITH FINANCIAL CONFLICT OF INTEREST POLICY

Mr. Engel reminded the Board about the rules of the Financial Conflict of Interest Policy and all board members are required to sign their annual Conflict of Interest statement. Ms. Knight confirmed she had received signed forms from all board members.

ITEM 11. REPORT FROM NOMINATING COMMITTEE

Mr. Dykhouse said he met with Mr. Musick via email as the Nominating Committee and indicated the report was included in the board packet. Chairperson Peterson said the nominations include: Mr. Casey Peterson as chairperson, Mr. Dana Dykhouse as vice-chairperson and Ms. Pat Lebrun as secretary/treasurer. Chairperson Peterson asked for additional nominations and none were made.

ITEM 12. ELECTION OF OFFICERS

Motion by Mr. Wheeler and seconded by Dr. Aprahamian to accept the nominating committee slate and elect Casey Peterson as Chairperson, Dana Dykhouse as Vice Chairperson, and Patricia Lebrun as Secretary/Treasurer. Motion passed unanimously.

ITEM 13. EXECUTIVE SESSION

Motion by Mr. Dykhouse and seconded by Ms. Lebrun to enter into executive session to discuss personnel matters and to consult with legal counsel concerning legal and contractual matters as permitted by SDCL 1-25-2(1), (3) and (4) and 19-19-502. Motion passed unanimously.

The Board recessed at 9:24 AM for a ten-minute break followed by executive session.

The Board reconvened in open session at 10:15 AM and a quorum was confirmed.

ITEM 14. REPORT FROM EXECUTIVE SESSION

Chairperson Peterson reported that the Board discussed personnel matters and consulted with legal counsel concerning legal and contractual matters. No action was taken.

Motion by Mr. Wheeler and seconded by Mr. Dykhouse to approve the executive session report. Motion passed unanimously.

ITEM 15. MISCELLANEOUS ITEMS FOR DISCUSSION

15A. REVIEW AMENDED WAIVERS

Mr. Engel reminded the Board under the Property Donation Agreement (PDA) any individual who travels underground is required to sign a Release, Agreement Not To Sue And Waiver and an Acknowledgment of Risk. He said the two documents had not been reviewed in a long time and have been reviewed as part of the revision of the Risk Transfer Protocols. The major changes to the waivers include to remove FRA, LLC and DOE as releasees at their request as it was creating issues with their contractors; there are also some format changes. The Release is subject to review by Homestake and Mr. Engel said he will send both the Release and the Acknowledgment of Risk to Homestake for review and comment.

Motion by Ms. Lebrun and seconded by Mr. Dykhouse to approve amendments to the Acknowledgment of Risk and the Release, Agreement Not To Sue And Waiver as presented, subject to review by Homestake. Motion passed unanimously.

15B. REVIEW RISK TRANSFER PROTOCOLS

Mr. Engel said the Risk Transfer Protocols (RTP) is a document that governs releases and waivers required by third party and also addresses insurance. He said this is SDSTA's way to transfer risk to others to the extent it can be transferred. This document was first adopted in the early 2010s and changes were made in 2016 but has not had a thorough review until now. Mr. Engel said the primary changes are (1) to increase the insurance limits due to inflation and to add provisions to address large projects such as LBNF/DUNE to require or explore the possibility of a "wrap-up" program, (2) changes to some administrative features, and (3) correction of typos and cross-references that were no longer valid. Subject to approval by DOE and review by Homestake are required based on the DOE Lease Agreement and PDA, respectively. Mr. Engel said he will send the RTP to DOE for approval followed by Homestake with a 60-to-90 day deadline for review. Chairperson Peterson asked if the SD Office of Risk Management (ORM) had reviewed the RTP and Mr. Engel replied ORM has been involved in the process.

Motion Mr. Wheeler and seconded by Dr. Aprahamian to approve the revised Risk Transfer Protocols as presented, subject to approval by the Department of Energy and review by Homestake as provided in the Property Donation Agreement. Motion passed unanimously.

15C. APPROVAL OF FY2024 OFFICE OF RISK MANAGEMENT INTERGOVERNMENTAL AGREEMENT

Mr. Headley said SDSTA has an agreement with the Office of Risk Management (ORM) for safety oversight at SURF and assistance with insurance matters. The annual review and update to the Intergovernmental Agreement is included in the board packet. Reorganization of the information to a table format was the biggest change with very few changes to the codes and standards to which SDSTA has agreed to adhere.

Mr. Engel interjected that costs have increased and ORM passes along increases on a dollar-for-dollar basis. State employees received a 7% salary increase, which is a part of the reason for the increased cost.

Motion by Mr. Wheeler and seconded by Dr. Aprahamian to approve the FY2024 Intergovernmental Agreement between the Bureau of Administration, Office of Risk Management of the State of SD and SDSTA and authorize the SDSTA executive director to sign agreement. Motion passed unanimously.

ITEM 16. CONFIRM DATE, TIME AND LOCATION OF NEXT MEETING

Chairperson Peterson reminded the Board of the next meeting, scheduled for Thursday, September 21, 2023, at 9:00 AM (CDT). It will be held at the Washington Pavilion in Sioux Falls and via Zoom. Please contact Ms. Knight by August 19 if you plan to join in person and hotel arrangements will be made in advance at the Holiday Inn Downtown City Center.

ITEM 17. PUBLIC COMMENTS

Chairperson Peterson said he did not receive any public comment request forms during the meeting and there was no one present in the room asking to provide public comment.

ITEM 18. BOARD COMMENTS

There were no comments from Dr. Aprahamian, Mr. Dykhous and Ms. Lebrun.

Mr. Wheeler said he appreciates the staff's work and congratulated them on the progress.

Mr. Engel thanked the Board.

Mr. Headley thanked the staff for their great work over the last quarter and thanked the Board for their strong support.

Mr. Peterson noted that the SDSTA Wastewater Treatment Plant received its 15th award for water quality exceeding set standards and asked that thanks for the great work be relayed to the team from the Board. Mr. Headley said he would pass along the praise and noted that SDSTA WWTP Foreman Mr. Ken Noren has been a driving force of these great results as well as modernizing the Plant. He said Mr. Noren is retiring the end of July and a successor has been identified. Chairperson Peterson concluded by saying he appreciated the work of the Board and the committees.

ITEM 19. ADJOURN

Chairperson Peterson called for a motion to adjourn.

Motion by Mr. Dykhous and seconded by Ms. Lebrun to adjourn. Motion passed unanimously.

Meeting adjourned at 10:28 AM (MT) on June 22, 2023.

Conflict of Interest Disclosure—Mr. Tim Engel

Invite members of the board to disclose anything that might be construed to be a conflict of interest relative to their role on the board.

Recommended Action:
Informational.

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Disclosures Under SDCL CH. 3-23—Mr. Tim Engel

See recommended motion below.

Recommended Action:

Motion to approve or deny as appropriate.

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Amendment of SDSTA By-Laws—Mr. Tim Engel

Attached is the amended SDSTA By-Laws dated September 21, 2023

See recommended motion below.

Recommended Action:

Motion to approve SDSTA By-Laws as amended and presented.

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AMENDED AND RESTATED BY-LAWS

OF

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

(as of September ~~22~~21, 20~~22~~23)

ARTICLE I.

NAME, PRINCIPAL OFFICE AND SEAL

Section 1. Name. The name of this Authority, a public body politic and corporate, shall be SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY (SDSTA), as provided in SDCL Ch. 1-16H.

Section 2. Principal Office. The principal office of the SDSTA shall be located at the City of Lead, Lawrence County, South Dakota. The SDSTA may have such other offices within the State of South Dakota as the Directors designate or as the business of the SDSTA may require.

Section 3. Seal. The corporate seal of the SDSTA shall be a circular disk having inscribed around the periphery thereof the words, "South Dakota Science and Technology Authority", and in the center the word, "Seal."

ARTICLE II.

BOARD OF DIRECTORS

Section 1. Membership of the Board. The Board shall consist of seven voting members to be appointed by the Governor and the Presidents of the South Dakota School of Mines and Technology and Black Hills State University as ~~an~~-ex-officio, non-voting members.

Not all Directors shall be of the same political party.

Section 2. Terms of Office. The terms of the voting members of the Board shall be six (6) years.

Section 3. Vacancies and Reappointments. Any person appointed to fill a vacancy on the Board of Directors shall serve for the unexpired term of his predecessor. All voting Directors shall be eligible for reappointment.

Section 4. Removal. Any Director may be removed by the Governor for cause, including incompetence, neglect of duty or malfeasance in office.

Section 5. Powers. The Board of Directors of the SDSTA shall possess and exercise all of the powers granted by SDCL Ch. 1-16H (the "Act"), as the same has been or hereafter may be amended, and by all other laws consistent with said Act and as may be necessary to effectuate the purpose of said Act.

Section 6. Indemnification of Directors.

Section 6.1. The SDSTA shall indemnify and hold harmless any person, including Directors, officers, members of committees, employees, agents, and their heirs, executors, administrators, representatives and successors, who was or is a party or is threatened to be made a party to any threatened proceedings or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the SDSTA) by reason of the fact that he or she is or was a Director, officer, employee or agent of the SDSTA, or is or was

serving at the request of the SDSTA as a Director, officer, employee or agent of another authority, partnership, joint venture, trust or other enterprise, against expenses, including attorney's fees, judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her in connection with the action, suit or proceeding if he or she acted in good faith and within the scope of his or her functions and duties on behalf of the SDSTA and in a manner not constituting willful and wanton misconduct by such individual and, with respect to any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful. The termination of any action, suit or proceeding by judgment, order, settlement, conviction, or upon a plea of nolo contendere or its equivalent, shall not, of itself, create a presumption that the person did not act in good faith and in a manner not constituting willful and wanton misconduct by such individual and, with respect to any criminal action or proceeding, had reasonable cause to believe that his or her conduct was unlawful.

Section 6.2. The SDSTA shall indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending, or completed action or suit, including all appeals, by or in the right of the SDSTA to procure a judgment in its favor by reason of the fact that he or she is or was a Director, officer, employee or agent of the SDSTA, or is or was serving at the request of the SDSTA as a director, trustee, officer, employee or agent of another authority, partnership, joint venture, trust or other enterprise,

against expenses (including attorney's fees) actually and reasonably incurred by him or her in connection with the defense or settlement of such action or suit if he or she acted in good faith and in a manner not constituting willful and wanton misconduct by such individual, except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been finally adjudged to be liable for willful and wanton misconduct in the performance of his or her duty to the SDSTA unless and only to the extent that the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses as such court shall deem proper.

Section 6.3. To the extent that a Director, officer, employee or agent has been successful on the merits or otherwise in defense of any action, suit or proceeding referred to in Section 6.1 or 6.2, or in defense of any claim, issue or matter therein, he or she shall be indemnified against expenses (including attorney's fees) actually and reasonably incurred by him or her in connection therewith.

Section 6.4. Except in a situation governed by Section 6.3, any indemnification under Section 6.1 or 6.2 (unless ordered by a court) shall be made by the SDSTA only as authorized in the specific case upon a determination that indemnification of the Director, officer, employee or agent is proper in the circumstances because he or she has met the applicable standard of conduct set forth in Section 6.1

or 6.2. Such determination shall be made (a) by a majority vote of the Directors of the SDSTA acting at a meeting at which a quorum consisting of directors who were not parties to such action, suit or proceeding is present, or (b) if such a quorum is not obtainable (or even if obtainable), and a majority of disinterested Directors so directs, by independent legal counsel (compensated by the SDSTA) in a written opinion, or (c) an action is brought before any Circuit Court in South Dakota and a determination is made that indemnification is proper because he or she has met the standard of conduct in Section 6.1.

Section 6.5. Expenses of each person indemnified hereunder incurred in defending a civil, criminal, administrative, or investigative action, suit, or proceeding (including all appeals), or threat thereof, may be paid by the SDSTA in advance of the final disposition of such action, suit or proceeding as authorized by the Directors, whether a disinterested quorum exists or not.

Section 6.6. The indemnification provided by this Article shall not be deemed exclusive of any other rights to which those seeking indemnification may be entitled as a matter of law or under these Bylaws, any agreement, vote of members, any insurance purchased by the SDSTA, or otherwise both as to action in his or her official capacity and as to action in other capacity while holding such office, and shall continue as to a person who has ceased to be a Director, officer, employee or agent and shall inure to the benefit of the heirs, executors, and administrators of such a person.

Section 6.7. The SDSTA may purchase and maintain insurance on behalf of any person who is or was a Director, officer, employee or agent of the SDSTA, or is or was serving at the request of the SDSTA as a director, trustee, officer, employee or agent of another authority, partnership, joint venture, trust or other enterprise against any liability asserted against him or her and incurred by him or her in any such capacity, or arising out of his or her status as such, whether or not the SDSTA would have the power to indemnify him or her against such liability under the provisions of this Article or of the laws of the State of South Dakota. Anything in this Article II, Section 6 to the contrary notwithstanding, the SDSTA's obligation to indemnify as provided for in this Article II, Section 6 is limited to the extent to which the SDSTA has insurance coverage available to cover and pay any such obligation.

Section 7. Committees. There shall be three standing committees and such ad hoc committees as the Board or the Chairperson deem necessary and appropriate from time to time. The Audit Committee shall review and report to the Board on the budget and finances of the authority, arrange for and report on audits of the SDSTA's books and records and perform such other duties as may be assigned from time-to-time by the Board or the Chairperson or as set out in a charter approved by the Board. The Audit Committee may retain legal counsel, auditors and such other consultants as it deems necessary to perform its duties. The Nominating Committee shall make nominations for the various offices of the SDSTA. The Chairperson

shall determine the number of members of each committee and make appointments to the committees.

Section 8. Compensation and Expenses. Voting members of the Board shall be compensated from SDSTA funds as provided in SDCL 1-16H-7 and 4-7-10.4. Voting members of the Board shall be reimbursed at such rates as are established from time-to-time by the South Dakota Board of Finance for necessary expenses, including travel and lodging expenses, incurred in connection with the performance of their duties as Board members.

ARTICLE III.

OFFICERS OF THE SDSTA

Section 1. Officers and Election of Officers. The officers of the SDSTA shall be a Chairperson, one or more Vice-Chairpersons and a Secretary-Treasurer, all of whom shall be members of the Board of Directors. Officers shall be elected annually by the Directors at the annual meeting. All duly-elected officers shall hold office until their successor has been duly elected and qualified.

Section 2. Chairperson. The Chairperson of the SDSTA shall preside at all meetings of the SDSTA, have general supervision over the affairs of the SDSTA and shall perform such other duties as shall be necessary or desirable by reason of his or her position as Chairperson, or as may be assigned by resolution of the SDSTA, duly adopted by at least four Directors, at a meeting held pursuant to these By-Laws.

Section 3. Vice-Chairperson. The Vice-Chairperson so

designated by the Board shall perform all duties incumbent upon the Chairperson during the absence or disability of the latter, and each Vice-Chairperson shall perform such other duties as shall be assigned by resolution of the SDSTA, duly adopted by at least four Directors, at a meeting held pursuant to these By-Laws.

Section 4. Secretary-Treasurer. The Secretary-Treasurer shall be responsible for the funds, books and records of the SDSTA, and shall perform such other duties as shall be assigned by resolution of the SDSTA, duly adopted by at least four Directors, at a meeting held pursuant to these By-Laws.

ARTICLE IV.

MEETINGS

Section 1. Annual Meetings. The annual meeting of the SDSTA shall be held during the month of June at such time and date, and in such place, as may be designated by the Board of Directors.

Section 2. Special Meetings. A special meeting of the SDSTA may be held upon call by the Chairperson, the Executive Director or any four (4) Directors of the SDSTA upon at least forty-eight (48) hours' notice to each Director, which notice may be waived so long as such a waiver is provided by all Directors. Such notice shall specify the time and place and general purpose of the meeting and shall be given to each Director, either personally, or by telefax, United States mail or contract carrier (if by United States mail or contract carrier, notice shall be deemed adequate if deposited in the United States mail or delivered to the contract carrier 72 hours or

more before the meeting) or by email (if the email is acknowledged by the Director by email, including by automated return receipt); provided, however, that at any meeting at which all of the directors of the SDSTA are present, notice of the time and place and purpose of the meeting shall be deemed waived.

Section 4. Quorum. Four voting Directors shall constitute a quorum. The affirmative vote of no less than four voting Directors shall be necessary for any action taken by the SDSTA. Except as otherwise provided herein or in the Act, a vacancy among the membership of the Board shall not impair the right of a quorum to exercise all the rights and perform all the duties of the SDSTA.

Section 5. Electronic Meetings. Any regular or special meeting of the Directors may be held by telephone, video link, via the Internet or via any other electronic medium, provided that all of the participants can fully participate in the meeting, and further provided that an appropriate, reasonably convenient place is made available for the public to monitor the meeting.

Section 6. Open Meetings. Anything in these By-Laws to the contrary notwithstanding, except as otherwise required or permitted by the Act, all meetings of the Board shall be open to the public, and notice thereof shall be given, as required by SDCL Ch. 1-25.

ARTICLE V.

ADMINISTRATIVE PERSONNEL

Section 1. Executive Director. The SDSTA may employ an Executive Director upon such terms and conditions as the SDSTA shall

deem proper. The Executive Director shall have general and active supervision, control and management of the affairs and business of the SDSTA, subject to the orders and resolutions of the SDSTA and supervision of the Chairperson. The Executive Director shall have general supervision and direction of all agents and employees of the SDSTA and shall see that all orders and resolutions of the SDSTA are carried into effect.

Section 2. Delegation of Duties. Whenever an officer is absent or whenever for any reason the Directors may deem it desirable, the board may delegate the powers and duties of an officer to any other officer or officers or to any Director or Directors.

Section 3. Other Personnel. The SDSTA may employ consulting engineers, architects, attorneys, accountants, construction and financial experts, superintendents, managers, and such other employees and agents as may be necessary in its judgment, and fix their compensation.

Section 4. Bond. The Executive Director and such other officers or employees as the Board may from time-to-time designate shall execute a bond in the penal sum of \$100,000 or, in lieu thereof, the Chairperson of the SDSTA shall execute a blanket bond covering each Director, the Executive Director and the employees or other officers of the SDSTA, each bond to be conditioned upon the faithful performance of the duties of the office or offices covered and shall be executed by a surety company authorized to transact business in this state and filed in the office of the Secretary of

State. In lieu of the purchase of bonds, the SDSTA may purchase insurance providing the same general protection as the above-mentioned bonds, with a limit of liability not less than the amount set forth above. The cost of such bonds or insurance shall be paid by the SDSTA.

ARTICLE VI.

ADMINISTRATION

Section 1. Annual Audit and Accounting Procedure. The SDSTA may cause an audit of its books to be made at least once each year by an auditor or auditors designated by the Board of Directors, and the cost thereof shall be paid as a part of the administrative costs of the SDSTA.

Section 2. Documents. The Executive Director shall keep a record of the proceedings of the SDSTA and shall be custodian of all books, documents and papers filed with the SDSTA, the minute book or journal of the SDSTA, and its official seal. The Executive Director may cause copies to be made of all minutes and other records and documents of the SDSTA and may give certificates under the official seal of the SDSTA to the effect that such copies are true copies, and all persons dealing with the SDSTA may rely upon such certificates.

Section 3. Execution of Documents. Unless the Directors otherwise direct in the action approving the document, all agreements entered into by the SDSTA shall be executed by the Executive Director or by an officer of the Board of Directors authorized so to do by a general motion or resolution adopted by the Board.

The Directors and officers of the SDSTA shall be permitted by resolution to use facsimile or electronic signatures where such are not prohibited by any rule of law.

Section 4. Fiscal Year. The SDSTA shall operate on a fiscal year basis beginning July 1 of each year and ending June 30 of the next succeeding year.

Section 5. Payments. All bills, notes, checks or other instruments for the payment of money shall be signed and countersigned by such officers and in such manner as may be prescribed by resolution of the Directors.

Section 6. SDSTA Action. Any action taken by the SDSTA under the Act may be authorized by motion or resolution at any regular or special meeting, and each such motion or resolution shall, unless otherwise provided therein or as required by applicable law, take effect immediately and need not be published or posted.

ARTICLE VII.

ANNUAL REPORT

The SDSTA shall keep an accurate account of all its activities and of all its receipts and expenditures and shall annually in the month of November, make a report thereof to the Directors, the Governor's Office of Economic Development and the Legislature.

ARTICLE VIII.

AMENDMENT

These By-Laws may be amended by the affirmative vote of at least four Directors of the SDSTA at any regular meeting, provided ten (10)

days' previous written notice of the proposed amendment has been given to all Directors. Such notice may, however, be waived if unanimous consent is given to the adoption of the amendment.

Adopted as amended and restated this 21st day of September , 2023.

Chairperson

(SEAL)

ATTEST:

Secretary/Treasurer

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SURF Foundation—Ms. Michelle Kane

SURF Foundation update—*informational*.

Recommended Action:

None.

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Report from Audit Committee—Ms. Patricia Lebrun

The Audit Committee met to review the Charter; Minutes and Charter attached—*informational*.

Recommended Action:

None.

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Audit Committee Meeting

August 28, 2023

Participants:

Ms. Pat Lebrun, SDSTA Board of Directors and Audit Committee Chair
Mr. Dana Dykhouse, SDSTA Board of Directors and Audit Committee Member
Mr. Roger Musick, SDSTA Board of Directors and Audit Committee Member
Mr. Terry Miller, SDSTA Chief Financial Officer
Ms. Kim Flock, SDSTA Controller

A teleconference was held August 28, 2023 to discuss the Audit Committee Charter for the South Dakota Science and Technology Authority (SDSTA) to address Section A. 2. of the charter, "Annually review and update this Charter."

Greetings were exchanged and the following items were discussed:

1. Pat, Roger and Dana discussed that the Audit Committee reviews the Audit Committee Charter each year. The Committee had a chance to review the current Charter, and there are no changes at this time.
2. It was moved by Dana to accept the SDSTA Audit Committee Charter. Roger seconded it. All voted Yea.
3. The FY2023 financial statement status, deadlines provided from the Bureau of Finance and Management, and the audit status from Eide Bailly were discussed. Pat stated that it appears the state is pushing a bit more for our statement entries and audit to be done. Terry confirmed that is true given the state's financial report was completed near the deadline date last year.
4. It was moved by Roger and seconded by Pat to start this years audit process. All voted yea.

Meeting adjourned.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY AUDIT COMMITTEE CHARTER

STATEMENT OF MISSION

The mission of the South Dakota Science and Technology Authority (SDSTA) Audit Committee is to be the pro-active steward for oversight of the financial reporting and disclosure process for SDSTA, including the investigation of claimed breaches of ethics, theft, fraud, embezzlement and reports of whistle-blowers. Our responsibility is to the SDSTA Board of Directors to report independently on the results of the oversight so as to assist in maintaining and enhancing the quality of the financial reporting. The Audit Committee is committed to communication between and among directors, the external auditor and Chief Financial Officer (CFO).

A. The Audit Committee has the following responsibilities and duties:

1. Appointment

- Annually be appointed by the SDSTA Board of Directors at their annual meeting in June.
- At least one member will be deemed a “financial expert,” as defined by applicable law and regulation.

2. Review

- Annually review and update this Charter.
- Annually determine the independence of Audit Committee members through a certification by the SDSTA Board of Director’s Chairperson.
- Review the SDSTA’s annual financial statements and any reports or other financial information submitted to or from any governmental body, or the public, including any certification, report, opinion or review rendered by the external auditor or the SDSTA CFO.
- Review any report or memo or other communication from Federal and State regulators and reviewers, and attend as many entrance and exit conferences as possible.

3. External Auditors/CFO/Independent Counsel/Other Advisors

- The Audit Committee shall have the independent authority to engage any legal counsel or other advisors it deems necessary to carry out its duties.
- Periodically consult with the external auditor out of the presence of management about internal controls and the fullness and accuracy of the company’s financial statements.
- Make the selection, retention, and review the performance of, the external auditor, considering independence and effectiveness and approve the fees paid to the external auditor as well as the proposed fee. On an annual basis, the Audit Committee should review and discuss with the external auditor all significant relationships the external auditor has with the company to determine the auditor’s independence and consider the appropriateness of the non-audit services prior to their engagement.
- Periodically meet with the CFO on the results of exams, and be available to CFO for appropriate communications at any time they desire the meeting.

4. Financial Reporting Process

- In consultation with the external auditor, review the integrity of the SDSTA’s financial reporting processes.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY AUDIT COMMITTEE CHARTER

- Consider the external auditor's judgments about the quality and appropriateness of the SDSTA's accounting principles, as applied in its financial reports and as promulgated by the Governmental Accounting Standards Board.
- Consider and forward to the SDSTA Board of Directors, if appropriate, recommendations for major changes to the SDSTA's auditing and accounting principles and practices as suggested by the external auditor, management or the CFO.
- Establish regular and separate systems of reporting to the Audit Committee by management and the external auditor regarding any significant judgments made in management's preparation of the financial statements and the Audit Committee's view of each as to appropriateness of such judgments.
- Following completion of the annual audit, review separately with management and the external auditor any significant difficulties encountered during the course of the audit, including any restrictions on the scope of work, or access to required information.
- Review and resolve any significant disagreement among management and the external auditor in connection with the preparation of the financial statements. Review in detail the passed audit adjustments and the materiality levels used by the external auditor, and the impact of Management's estimates used in the financial statement preparation.
- Review with the external auditor and management the extent to which changes or improvements in financial or accounting practices, as approved by the Audit Committee in prior reports or meetings, have been implemented.

5. Ethical and Legal Compliance

- Establish, review and update periodically a Conflict of Interest Policy and ensure that management has established a system to enforce this Policy.
- Review management's monitoring of compliance with the SDSTA's Conflict of Interest Policy, and verify that management has the proper review system in place to ensure that financial statements, reports, and other financial information disseminated to governmental organizations, and the public, satisfy legal requirements.
- Review with SDSTA's retained legal counsel any legal matter that could have a significant impact on the SDSTA's financial statements.
- Periodically review individual committee member education and obtain resources, seminars and materials to keep the level of member's education current.
- Perform any other activities consistent with this Charter, the SDSTA's By-Laws and governing law, as the Audit Committee or the SDSTA Board of Directors deems necessary or appropriate.

6. Reporting

In order to facilitate the proper execution of its duties and responsibilities, the Audit Committee shall conduct its reviews and investigations in a confidential manner. The Audit Committee shall report to the SDSTA Board the results of the Financial Reporting Process, consultations with External Auditors, the CFO or other Advisors, or any other issues they deem important for the SDSTA Board to meet its responsibilities. These reports shall include, but not be limited to, the results of the annual external audit or any internal audit on financial reports or compliance (including difficulties or disagreements encountered, if any, past

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY AUDIT COMMITTEE CHARTER

adjustments, materiality defined by the auditor, any legal matter having a material impact on the report, management letter comments, etc.), the integrity of the financial reporting system, the appropriateness of the accounting principles applied to the financial reports, the status of internal controls, any suggested change to any of the above systems the Audit Committee thinks should be made, any significant report or communication from any other matter that the Audit Committee deems critical information needed by the SDSTA Board. To the extent permitted by applicable law, the Audit Committee's reports to the Board of Directors shall be delivered in closed session.

The Audit Committee shall strive to provide the Board with the information it needs to manage the reporting and accounting for the SDSTA as well as utilize the reports to manage all of the other risks it faces. These reports will be made when information is received and available. The Annual Schedule below outlines some of the reporting dates anticipated.

7. Budget Process

The Audit Committee will meet with the CFO in March to establish the annual budget for the Audit Committee to cover costs for audit fees, legal fees, consulting fees, continuing education travel and costs and miscellaneous costs.

B. Annual Schedule

The Audit Committee will meet at its discretion but the following is a guideline for business to be conducted during the year:

December-January – Meet with external auditors to discuss preliminary audit findings, letters to management, passed adjustments, materiality, management estimates, and quality and appropriateness of accounting principles.

March-June – Present audit findings, letter of comments and other appropriate information to the SDSTA's Board of Directors at SDSTA annual meeting. Meet to update issues on hiring other outside auditors for review, as deemed necessary, of such areas as EDP, compliance, etc.

September – Request proposal for external audit. Meet with CFO.

October/November/December – Meet with CFO to review any issues regarding the audit. Meet to engage external financial auditor on entrance conference. Review all SDSTA regulators' reports (State and/or Federal). Certify as to committee member's independence.

C. Limitations on the Committee's Role:

While the Audit Committee has the responsibilities and powers as stated above, it is not the Committee's duty to audit the SDSTA's financial statements or to determine that the SDSTA's financial statements are complete and accurate in accordance with generally accepted accounting principles (GAAP), as promulgated by the Governmental Accounting Standards Board. These are the responsibilities of management and the independent auditors.

Financial Report—Mr. Mike Headley

Financial Report update by SDSTA CFO Terry Miller:

9A. Financial Summaries for July 2023, *attached*.

9B. Insurance update.

9C. Amend FY2024 budget. (*see suggested motion below*)

9D. South Dakota Investment Council Letter, *attached*. (*see suggested motion below*)

9E. Fiscal Year End Inventory Listing, *attached*.

9F. Fiscal Year End Board Per Diem Listing, *attached*.

Recommended Action:

(9C) *Motion to approve FY2024 budget as amended.*

(9D) *Motion to approve interest earning accrual at percentage discussed for fiscal year 2023.*

(9) *Motion to accept financial report as presented.*

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DIVISION: ALL

BALANCE SHEET

ASSETS

AS OF
07/31/23

CURRENT ASSETS

First Interstate Checking	\$	3,301,768.12

Total in Local Checking		3,301,768.12
SD Treas: Indemnification		7,500,000.00
SD Treas: Mine Closure		1,533,566.14
SD Treas: Operating		1,386,598.52
SD Treas: SB35 Appropriation		12,915,220.17
SD Treas: Experiments		594,326.21

Total with SD Treasurer		23,929,711.04
Billed A/R		2,174,184.48
Unbilled A/R		111,404.17
Other A/R		442,936.39
Inventory - Supplies		2,624,414.83
Inventory - Warehouse		439,444.50
Other Current Assets		906,878.72

Total Current Assets		33,930,742.25

FIXED ASSETS

Land, Underground & Other		12,743,473.13
Bldgs & Infrastructure		19,145,674.12
Improvements		62,797,546.32
Work in Progress		4,035,307.26
Computer Equipment		366,435.18
Equipment & Fixtures		10,255,507.29
DOE Property Transfer		9,038,962.07
Accum Depr & Amort		(23,418,095.05)
DOE Prop. Accum Deprec.		(971,588.19)

Total Fixed Assets		93,993,222.13

OTHER ASSETS

Asset Retirement Obligation Deferred Outflows		1,129,637.92
Pension Deferred Outflows		11,243,668.96
Xenon Purchased		8,687,833.46

Total Other Assets		21,061,140.34

TOTAL ASSETS

=====

\$ 148,985,104.72

=====

DIVISION: ALL

BALANCE SHEET

LIABILITIES & EQUITY

		AS OF 07/31/23

CURRENT LIABILITIES		
Accounts Payable	\$	1,543,152.84
Other Payables		4,077.63

Total Accounts Payable		1,547,230.47
Accrued Payroll Liab		1,812,985.37

Total Current Liabilities		3,360,215.84
OTHER LIABILITIES		
LT Xenon Notes Payable		3,121,190.01
Pension Deferred Inflows		9,300,127.02
Asset Retirement Obligation		1,129,637.92

Total Other Liabilities		13,550,954.95
EQUITY		
Restricted: Indemnificati		7,500,000.00
Restricted: SB35 Appropriation		12,915,220.17
Restricted: Mine Closure		1,533,566.14
Restricted: Pension		1,943,541.94
Restricted: Experim. Int.		594,326.21
Restricted: Foundation		-

Total Restricted Funds		24,486,654.46
Investment in Gen FA		93,993,222.13
Unrestricted Funds		13,594,057.34

Total Equity		132,073,933.93
		=====
TOTAL LIABILITIES & EQUITY	\$	148,985,104.72
		=====

ALL

STATEMENT OF INCOME

FOR THE PERIOD ENDING 7/31/2023

	YR-TO-DATE
REVENUE	
DOE Subcontracts	\$ 2,925,918.62
State Revenue	-
Checking Interest	660.83
Interest Income	19,941.43

TOTAL REVENUE	2,946,520.88
DIRECT COSTS	
Direct Labor	748,130.45
Board of Directors	557.10
Capital Outlay >\$5K	699,773.04
Contractual Svcs	349,960.88
Inventory	44,779.54
Supplies	148,942.10
Travel - Domestic	85,674.03
Travel - Foreign	5,336.21
Utilities	149,012.87
Other Direct Costs	4,481.79
Unallow/Unbill Costs	24,277.18

TOTAL DIRECT COSTS	2,260,925.19
INDIRECT COSTS	
Fringe Benefits	734,626.65
Overhead	988,512.31

TOTAL INDIRECT COSTS	1,723,138.96

GROSS PROFIT/LOSS ()FROM OPERATIONS	(1,037,543.27)

OTHER INCOME	
Water Treatment	25,341.66
Miscellaneous Income	4,466.63
Other Operating Income	40,045.07

TOTAL OTHER INCOME	69,853.36
OTHER EXPENSES	
Misc. Expenses & Donations	(112,447.60)
Loss (Gain) on Sale of FA	(1,855.00)
Other Unallowable Expense	48,039.56
Reclass Incr Net Assets	(200,658.17)

TOTAL OTHER EXPENSES	(266,921.21)
	=====
NET INCOME/LOSS ()	\$ (700,768.70)
	=====

DIVISION: ALL

COMPARATIVE BALANCE SHEET

ASSETS

	AS OF 07/31/23	AS OF 07/31/22	\$ CHANGE	% CHANGE
<hr/>				
CURRENT ASSETS				
First Interstate Checking	\$ 3,301,768.12	\$ 4,654,791.00	\$ (1,353,022.88)	-29.07%
First Interstate Other	-	-	-	0.00%
	-----	-----	-----	-----
Total in Local Checking	3,301,768.12	4,654,791.00	(1,353,022.88)	-29.07%
SD Treas: Indemnification	7,500,000.00	7,500,000.00	-	0.00%
SD Treas: Mine Closure	1,533,566.14	1,533,566.14	-	0.00%
SD Treas: Operating	1,386,598.52	1,386,598.52	-	0.00%
SD Treas: SB35 Appropriation	12,915,220.17	-	12,915,220.17	100.00%
SD Treas: Experiments	594,326.21	726,382.94	(132,056.73)	-18.18%
	-----	-----	-----	-----
Total with SD Treasurer	23,929,711.04	11,146,547.60	12,783,163.44	114.68%
Billed A/R	2,174,184.48	2,548,259.49	(374,075.01)	-14.68%
Unbilled A/R	111,404.17	3,081.67	108,322.50	3515.06%
Other A/R	442,936.39	298,542.90	144,393.49	48.37%
Inventory - Supplies	2,624,414.83	3,237,428.11	(613,013.28)	-18.94%
Inventory - Warehouse	439,444.50	403,500.17	35,944.33	8.91%
Other Current Assets	906,878.72	918,361.43	(11,482.71)	-1.25%
	-----	-----	-----	-----
Total Current Assets	33,930,742.25	23,210,512.37	10,720,229.88	46.19%
 FIXED ASSETS				
Land, Underground & Other	12,743,473.13	12,743,473.13	-	0.00%
Bldgs & Infrastructure	19,145,674.12	19,386,433.19	(240,759.07)	-1.24%
Improvements	62,797,546.32	62,813,135.62	(15,589.30)	-0.02%
Work In Progress	4,035,307.26	4,079,796.90	(44,489.64)	-1.09%
Computer Equipment	366,435.18	339,633.81	26,801.37	7.89%
Equipment & Fixtures	10,255,507.29	10,652,505.16	(396,997.87)	-3.73%
DOE Property Transfer	9,038,962.07	6,333,458.97	2,705,503.10	42.72%
Accum Depr & Amort	(23,418,095.05)	(21,620,182.90)	(1,797,912.15)	8.32%
DOE Prop. Accum Deprec.	(971,588.19)	(543,753.17)	(427,835.02)	78.68%
	-----	-----	-----	-----
Total Fixed Assets	93,993,222.13	94,184,500.71	(191,278.58)	-0.20%
 OTHER ASSETS				
Asset Retirement Obligation Deferred Outflows	1,129,637.92	1,129,637.92	-	0.00%
Pension Deferred Outflows	11,243,668.96	11,243,668.96	-	0.00%
Xenon Purchased	8,687,833.46	8,934,350.39	(246,516.93)	-2.76%
	-----	-----	-----	-----
Total Other Assets	21,061,140.34	21,307,657.27	(246,516.93)	-1.16%
 TOTAL ASSETS				
	=====	=====	=====	=====
	\$ 148,985,104.72	\$ 138,702,670.35	\$ 10,282,434.37	7.41%
	=====	=====	=====	=====

DIVISION: ALL

COMPARATIVE BALANCE SHEET

LIABILITIES & EQUITY

	AS OF 07/31/23	AS OF 07/31/22	\$ CHANGE	% CHANGE
CURRENT LIABILITIES				
Accounts Payable	\$ 1,543,152.84	\$ 1,207,344.57	335,808.27	27.81%
Other Payables	4,077.63	8,355.77	(4,278.14)	-51.20%
	-----	-----	-----	-----
Total Accounts Payable	1,547,230.47	1,215,700.34	331,530.13	27.27%
Accrued Payroll Liab	1,812,985.37	1,875,578.45	(62,593.08)	-3.34%
	-----	-----	-----	-----
Total Current Liabilities	3,360,215.84	3,091,278.79	268,937.05	8.70%
OTHER LIABILITIES				
LT Xenon Notes	3,121,190.01	6,000,000.00	(2,878,809.99)	-47.98%
Pension Deferred Inflows	9,300,127.02	9,300,127.02	-	0.00%
Asset Retirement Obligation	1,129,637.92	1,129,637.92	-	0.00%
	-----	-----	-----	-----
Total Other Liabilities	13,550,954.95	16,429,764.94	(2,878,809.99)	-17.52%
	-----	-----	-----	-----
TOTAL LIABILITIES	16,911,170.79	19,521,043.73	(2,609,872.94)	-13.37%
EQUITY				
Restricted: Indemnificati	7,500,000.00	7,500,000.00	-	0.00%
Restricted: SB35 Appropriation	12,915,220.17	-	12,915,220.17	100.00%
Restricted: Mine Closure	1,533,566.14	1,533,566.14	-	0.00%
Restricted: Pension	1,943,541.94	1,943,541.94	-	0.00%
Restricted: Experim. Int.	594,326.21	726,382.94	(132,056.73)	-18.18%
Restricted: Foundation	-	58,393.38	(58,393.38)	-100.00%
	-----	-----	-----	-----
Total Restricted Funds	24,486,654.46	11,761,884.40	12,724,770.06	108.19%
Investment in Gen FA	93,993,222.13	94,184,500.71	(191,278.58)	-0.20%
Unrestricted Funds	13,594,057.34	13,235,241.51	358,815.83	2.71%
	-----	-----	-----	-----
TOTAL EQUITY	132,073,933.93	119,181,626.62	12,892,307.31	10.82%
	=====	=====	=====	=====
TOTAL LIABILITIES & EQUITY	\$ 148,985,104.72	\$ 138,702,670.35	\$ 10,282,434.37	7.41%
	=====	=====	=====	=====

COMPARATIVE STATEMENT OF INCOME

FOR THE PERIOD ENDING 7/31/23

	YEAR TO DATE	PRIOR YEAR TO DATE	\$ CHANGE	% CHANGE
REVENUE				
DOE Subcontracts	\$ 2,925,918.62	\$ 2,453,957.75	\$ 471,960.87	19.23%
Checking Interest	660.83	156.02	504.81	323.55%
Interest Income	19,941.43	9,203.00	10,738.43	116.68%
	-----	-----	-----	-----
TOTAL REVENUE	2,946,520.88	2,463,316.77	483,204.11	19.62%
DIRECT COSTS				
Direct Labor	748,130.45	547,259.58	200,870.87	36.70%
Board of Directors	557.10	594.12	(37.02)	-6.23%
Capital Outlay >\$5K	699,773.04	-	699,773.04	100.00%
Contractual Svcs	349,960.88	585,610.47	(235,649.59)	-40.24%
Inventory	44,779.54	34,446.50	10,333.04	30.00%
Supplies	148,942.10	91,007.61	57,934.49	63.66%
Travel - Domestic	85,674.03	14,303.17	71,370.86	498.99%
Travel - Foreign	5,336.21	2,001.14	3,335.07	166.66%
Utilities	149,012.87	157,292.59	(8,279.72)	-5.26%
Other Direct Costs	4,481.79	1,369.16	3,112.63	227.34%
Unallow/Unbill Costs	24,277.18	27,764.77	(3,487.59)	-12.56%
	-----	-----	-----	-----
TOTAL DIRECT COSTS	2,260,925.19	1,461,649.11	799,276.08	54.68%
INDIRECT COSTS				
Fringe Benefits	734,626.65	535,772.36	198,854.29	37.12%
Overhead	988,512.31	808,241.60	180,270.71	22.30%
	-----	-----	-----	-----
TOTAL INDIRECT COSTS	1,723,138.96	1,344,013.96	379,125.00	28.21%
	-----	-----	-----	-----
GROSS PROFIT/LOSS ()	(1,037,543.27)	(342,346.30)	(695,196.97)	517.81%
	-----	-----	-----	-----
OTHER INCOME				
Water Treatment	25,341.66	21,334.29	4,007.37	18.78%
Miscellaneous Income	4,466.63	9,550.85	(5,084.22)	-53.23%
Other Operating Income	40,045.07	3,197.48	36,847.59	1152.39%
	-----	-----	-----	-----
TOTAL OTHER INCOME	69,853.36	34,082.62	35,770.74	104.95%
OTHER EXPENSES				
Misc. Expenses & Donations	(112,447.60)	(39,382.38)	(73,065.22)	185.53%
Loss (Gain) on Sale of FA	(1,855.00)	(96.07)	(1,758.93)	1830.88%
Other Unallowable Expense	48,039.56	32,361.17	15,678.39	48.45%
Reclass Incr Net Assets	(200,658.17)	(176,483.67)	(24,174.50)	13.70%
	-----	-----	-----	-----
TOTAL OTHER EXPENSES	(266,921.21)	(183,600.95)	(83,320.26)	45.38%
	=====	=====	=====	=====
NET INCOME/LOSS ()	\$ (700,768.70)	\$ (124,662.73)	\$ (576,105.97)	462.13%
	=====	=====	=====	=====

South Dakota Science & Technology Authority
Available Resources
7/31/2023

Cash Total Checking	\$ 3,301,768
Cash With State Treasurer	<u>\$ 23,929,711</u>
Total Cash	\$ 27,231,479
Less: Restricted Funds	
Indemnification/Mine Closure	\$ (9,033,566)
SB35 Appropriation	\$ (12,915,220)
Experiments (Xenon, Interest, Infrastructure)	<u>\$ (594,326)</u>
 Total Cash Available for Infrastructure Upgrades and Authority Operations	 \$ 4,688,367
Plus: Accounts Receivable Billed	\$ 2,174,184
Accounts Receivable Unbilled	\$ 111,404
Less: Current Liabilities (Accounts Payable & Accrued Payroll)	\$ (3,360,216)
 Available Cash and Receivables	 <u><u>\$ 3,613,739</u></u>

SDSTA Operating Budget Summary FY2024

Actual vs Budget
July 2023 & YTD

	July 2023	Budget	\$ Over/Under Budget	% of Budget	Actual YTD	YTD Budget	\$ Over/Under Budget	% of Budget	% Remaining
									100%
SDSTA (Authority) Direct Charges									
Board of Directors	\$592.00	\$1,500.00	\$908	39.47%	\$592.00	\$1,500.00	\$908	39.47%	60.53%
Executive Office	\$146,338.00	\$88,800.00	(\$57,538)	164.8%	\$146,338.00	\$88,800.00	(\$57,538)	164.80%	-64.80%
Science Center E & O	\$81,972.00	\$76,500.00	(\$5,472)	107.15%	\$81,972.00	\$76,500.00	(\$5,472)	107.15%	-7.15%
SURF Foundation	\$16,775.00	\$25,568.00	\$8,793	65.61%	\$16,775.00	\$25,568.00	\$8,793	65.61%	34.39%
Science Liaison	\$1,042.00	\$0.00	(\$1,042)	100.0%	\$1,042.00	\$0.00	(\$1,042)	NA	NA
SLHVC (Visitor Center)	\$60,311.00	\$55,238.00	(\$5,073)	109.18%	\$60,311.00	\$55,238.00	(\$5,073)	109.18%	-9.18%
Subtotal	\$307,030.00	\$247,606.00	(\$59,424)	124.0%	\$307,030.00	\$247,606.00	(\$59,424)	124.00%	-24.00%
Federal/State Funding - Direct Charges									
Fermi C#671265 Prof. St.Services	\$5,026.00	\$10,910.00	\$5,884	46.07%	\$5,026.00	\$10,910.00	\$5,884	46.07%	53.93%
Fermi C#685922 Op Serv Support	\$0.00	\$0.00	\$0	0.0%	\$0.00	\$0.00	\$0	0.00%	100.00%
Fermi C#674969 Ross Logist.Supp.	\$263,036.00	\$282,106.00	\$19,070	93.24%	\$263,036.00	\$282,106.00	\$19,070	93.24%	6.76%
Office of Science Coop.Agree	\$1,825,212.00	\$1,264,539.00	(\$560,673)	144.34%	\$1,825,212.00	\$1,264,539.00	(\$560,673)	144.34%	-44.34%
Office of Science IIP Projects	\$0.00	\$0.00	\$0	0.0%	\$0.00	\$0.00	\$0	0.00%	0.00%
LBNL LZExp.Operat.C#7650068 & DE-SC0022857	\$71,956.00	\$51,343.00	(\$20,613)	140.15%	\$71,956.00	\$51,343.00	(\$20,613)	140.15%	-40.15%
MJD (Majorana) ORNL144149 & SDSM&T CT001412	\$2,292.00	\$2,035.00	(\$257)	112.63%	\$2,292.00	\$2,035.00	(\$257)	112.63%	-12.63%
* Kiewit/Thyssen/DakotaT.	\$1,525.00	\$1,525.00	\$0	100.0%	\$1,525.00	\$1,525.00	\$0	100.00%	0.00%
* Caterpillar Inc.	\$0.00	\$0.00	\$0	0.0%	\$0.00	\$0.00	\$0	0.00%	100.00%
RESPEC Thermal Breakout	\$0.00	\$83.00	\$83	0.0%	\$0.00	\$83.00	\$83	0.00%	100.00%
Subtotal	\$2,169,047.00	\$1,612,541.00	(\$556,506)	134.51%	\$2,169,047.00	\$1,612,541.00	(\$556,506)	134.51%	-34.51%
Indirect Expenses									
Indirect Charges Personnel	\$400,490.00	\$601,633.00	\$201,143	66.57%	\$400,490.00	\$601,633.00	\$201,143	66.57%	33.43%
Indirect Charges Other	\$637,389.00	\$565,775.00	(\$71,614)	112.66%	\$637,389.00	\$565,775.00	(\$71,614)	112.66%	-12.66%
Subtotal	\$1,037,879.00	\$1,167,408.00	\$129,529	88.9%	\$1,037,879.00	\$1,167,408.00	\$129,529	88.90%	11.10%
Totals	\$3,513,956.00	\$3,027,555.00	(\$486,401)	116.07%	\$3,513,956.00	\$3,027,555.00	(\$486,401)	116.07%	-16.07%
* Private Corporations (Commercial Group)									



SOUTH DAKOTA INVESTMENT COUNCIL

4009 West 49th Street, Suite 300

Sioux Falls, SD 57106-3784 USA

Phone: (605) 362-2820

August 1, 2023

Interest Proration Participating Agencies:

You recently received your 2023 interest proration voucher this week by e-mail. This represents interest on each agency fund's average balance for fiscal year 2023 as determined by SDCL 4-5-30. The Cash Flow Fund received \$76,722,458 of interest and net gains for the fiscal year on an average balance of \$3.532 billion. The rate (net of fees) for fiscal year 2023, payable in fiscal year 2024, is 2.16%.

If you have any questions regarding the calculation, please call Tiffany Ripperda (605-773-8466) at the Bureau of Finance and Management or Sami Rains at the South Dakota Investment Council.

Sincerely,

Matthew L. Clark
State Investment Officer

MLC/smr
Enclosure

SD Science & Technology Authority

Year to Date Reconciliation - 7/1/2022 through 6/30/2023

June 30, 2023

Year to Date 7/1/2022 through 6/30/2023			Cost of Fixed Assets			Accumulated Depreciation					
000 - SD Science & Technology Authority											
Sys ID	Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
110 - Automobiles											
77	2003 Chevy Astro AWD	7/15/2008	7/15/2008	9,079.90			9,079.90	8,172.00			8,172.00
78	2003 Ford F250 63-1658	1/16/2009	1/16/2009	11,890.17			11,890.17	10,700.97			10,700.97
79	2000 Ford F150 V8 Whit	2/16/2009	2/16/2009	7,273.42			7,273.42	6,545.72			6,545.72
348	2001 Dodge 2500 W/Mai	8/12/2009	8/12/2009	8,906.71			8,906.71	8,016.00			8,016.00
349	2004 Ford Explorer Sport	6/4/2010	6/4/2010	13,306.83			13,306.83	11,976.00			11,976.00
570	2009 Chevy G3500 Van	9/8/2014	9/8/2014	16,900.00			16,900.00	15,210.00			15,210.00
653	2011 Chevy3500Stakebe	11/21/2016	11/21/2016	22,657.45			22,657.45	16,264.00	2,913.00		19,177.00
702	2002 Chevy 2500 Truck	6/17/2019	6/17/2019	10,000.00			10,000.00	3,858.00	1,286.00		5,144.00
712	2018 Dodge Ram Plow T	11/25/2019	11/25/2019	40,243.00			40,243.00	13,366.00	5,174.00		18,540.00
713	2019 DodgeRam-W-VPlc	12/19/2019	12/19/2019	48,210.00			48,210.00	15,495.00	6,198.00		21,693.00
722	2020 Ford Passenger Van	4/1/2020	4/1/2020	48,869.00			48,869.00	14,137.00	6,283.00		20,420.00
730	2011 Chevy 3500 w/Utili	5/28/2021	5/28/2021	30,185.00			30,185.00	4,204.00	3,881.00		8,085.00
738	2021 Dodge Ram 3500	6/17/2021	6/17/2021	39,475.00			39,475.00	5,075.00	5,075.00		10,150.00
753	2019 Dodge Ram Pickup	2/28/2022	2/28/2022	30,046.93			30,046.93	2,121.00	6,363.00		8,484.00
754	2019 Dodge Ram Pickup	2/28/2022	2/28/2022	30,634.73			30,634.73	2,162.00	6,487.00		8,649.00
756	2019 Dodge Ram Pickup	2/28/2022	2/28/2022	30,572.01			30,572.01	2,158.00	6,474.00		8,632.00
757	2019 Dodge Ram Pickup	2/28/2022	2/28/2022	30,067.98			30,067.98	2,122.00	6,367.00		8,489.00
758	2022Ford Transit White l	4/20/2022	4/20/2022	49,293.00			49,293.00	1,056.00	6,338.00		7,394.00
766	2022 RAM 3500 Tradesn	10/28/2022	10/28/2022		61,052.60		61,052.60		5,233.00		5,233.00
				477,611.13	61,052.60	0.00	538,663.73	142,638.69	68,072.00	0.00	210,710.69
120 - Building											
10	Ross Hoist Room	4/14/2006	4/14/2006	436,796.20			436,796.20	149,951.72	8,736.00		158,687.72
14	Ross Head Frame & Crus	4/14/2006	4/14/2006	421,551.65			421,551.65	144,716.90	8,431.00		153,147.90
19	Yates Head Frame & Cru	4/14/2006	4/14/2006	496,154.18			496,154.18	170,327.06	9,923.00		180,250.06
24	Mine Office - Admin Bld	4/14/2006	4/14/2006	461,316.99			461,316.99	158,364.23	9,226.00		167,590.23
25	Yates Hoist/MG Set Rooi	4/14/2006	4/14/2006	797,826.88			797,826.88	273,897.43	15,957.00		289,854.43
26	Ross Substation Building	4/14/2006	4/14/2006	13,615.43			13,615.43	4,670.12	272.00		4,942.12
27	Ross Boiler	4/14/2006	4/14/2006	23,236.99		(23,236.99)	0.00	7,980.57	426.00	(8,406.57)	0.00
28	Ross Core Shed	4/14/2006	4/14/2006	6,785.02			6,785.02	2,333.17	136.00		2,469.17
29	Ross Dry	4/14/2006	4/14/2006	142,961.96			142,961.96	49,075.27	2,859.00		51,934.27
30	Ross Pipe Shop	4/14/2006	4/14/2006	50,830.92			50,830.92	17,455.05	1,017.00		18,472.05

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
120 - Building										
31 LHD Warehouse	4/14/2006	4/14/2006	51,988.23			51,988.23	17,850.45	1,040.00		18,890.45
32 Ross Tramway Shed	4/14/2006	4/14/2006	68,757.90			68,757.90	23,602.31	1,375.00		24,977.31
33 Ross Air Tanks	4/14/2006	4/14/2006	7,760.79		(7,760.79)	0.00	2,661.45	142.00	(2,803.45)	0.00
34 Ross Ramp	4/14/2006	4/14/2006	7,091.37			7,091.37	2,436.69	142.00		2,578.69
35 Oro Hondo Fan Building	4/14/2006	4/14/2006	6,807.71			6,807.71	2,335.06	136.00		2,471.06
36 Oro Hondo Substation Bt	4/14/2006	4/14/2006	6,807.71			6,807.71	2,335.06	136.00		2,471.06
37 Shaft Heater Room @ #5	4/14/2006	4/14/2006	6,240.40			6,240.40	2,144.81	125.00		2,269.81
38 Tramway Roundhouse	4/14/2006	4/14/2006	7,624.64			7,624.64	2,611.11	152.00		2,763.11
39 Main Warehouse	4/14/2006	4/14/2006	142,224.46			142,224.46	48,818.84	2,844.00		51,662.84
41 Bottle Gas Storage	4/14/2006	4/14/2006	20,967.75			20,967.75	7,193.55	419.00		7,612.55
42 Tramway	4/14/2006	4/14/2006	177,908.22			177,908.22	61,073.19	3,558.00		64,631.19
45 Foundry	4/14/2006	4/14/2006	162,810.11			162,810.11	55,889.56	3,256.00		59,145.56
46 Battery Repair Building	4/14/2006	4/14/2006	26,141.62			26,141.62	8,976.51	523.00		9,499.51
47 Bit Shop	4/14/2006	4/14/2006	5,446.17			5,446.17	1,870.65	109.00		1,979.65
48 Paint Shop	4/14/2006	4/14/2006	7,715.41			7,715.41	2,644.67	154.00		2,798.67
50 East Substation Building	4/14/2006	4/14/2006	6,807.71			6,807.71	2,335.06	136.00		2,471.06
51 Wash Rack	4/14/2006	4/14/2006	7,148.10			7,148.10	2,454.41	143.00		2,597.41
52 Steady Head Tank	4/14/2006	4/14/2006	8,271.37			8,271.37	2,833.98	165.00		2,998.98
53 Yates Safety & Dry	4/14/2006	4/14/2006	215,259.87			215,259.87	73,895.46	4,305.00		78,200.46
54 Yates Power Substation I	4/14/2006	4/14/2006	11,436.96			11,436.96	3,929.66	229.00		4,158.66
55 Yates Bosses Office	4/14/2006	4/14/2006	6,490.02			6,490.02	2,230.60	130.00		2,360.60
57 Yates Lamp Room	4/14/2006	4/14/2006	10,620.03			10,620.03	3,640.61	212.00		3,852.61
58 Yates Dust Collector	4/14/2006	4/14/2006	3,630.78		(3,630.78)	0.00	1,251.43	67.00	(1,318.43)	0.00
59 Yates Sawmill	4/14/2006	4/14/2006	33,947.79			33,947.79	11,654.74	679.00		12,333.74
60 Used Oil Storage Tank	4/14/2006	4/14/2006	2,042.31			2,042.31	703.12	41.00		744.12
61 Yates Cooling Tower	4/14/2006	4/14/2006	5,446.17			5,446.17	1,870.65	109.00		1,979.65
62 Yates Compressor	4/14/2006	4/14/2006	173,180.53			173,180.53	59,457.38	3,464.00		62,921.38
64 WW Influent Building	4/14/2006	4/14/2006	645,487.44			645,487.44	221,597.04	12,910.00		234,507.04
65 WW Lab/Fishhouse	4/14/2006	4/14/2006	134,476.55			134,476.55	46,171.47	2,690.00		48,861.47
66 WW Mechanical Buildin	4/14/2006	4/14/2006	727,249.18			727,249.18	249,662.53	14,545.00		264,207.53
67 WW Warehouse	4/14/2006	4/14/2006	174,012.66			174,012.66	59,734.70	3,480.00		63,214.70
68 WW Sandfilter Building	4/14/2006	4/14/2006	917,399.02			917,399.02	314,940.40	18,348.00		333,288.40
338 Building Closing Costs	1/31/2007	1/31/2007	63,820.42			63,820.42	20,182.67	1,276.00		21,458.67
73 WW Protec Building 56X	12/1/2008	12/1/2008	64,632.77		(64,632.77)	0.00	35,113.10	431.00	(35,544.10)	0.00
74 WW Valve Building 9X1	12/16/2008	12/16/2008	15,178.78			15,178.78	4,103.79	304.00		4,407.79

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
120 - Building										
75 WW Pole Frame Building	2/5/2009	2/5/2009	104,518.82			104,518.82	28,040.99	2,090.00		30,130.99
666 Ellison Hoist Bldg	6/12/2017	6/12/2017	24,252.00		(24,252.00)	0.00	2,465.00	445.00	(2,910.00)	0.00
668 Ellison Dry-Paint Ship	6/12/2017	6/12/2017	49,632.00			49,632.00	5,048.00	993.00		6,041.00
669 Old Compressor Bldg.	6/12/2017	6/12/2017	39,198.00			39,198.00	3,985.00	784.00		4,769.00
670 Drill Bit Shop	6/12/2017	6/12/2017	87,138.00			87,138.00	8,860.00	1,743.00		10,603.00
686 Radon Removal Building	9/15/2017	9/15/2017	615,530.88			615,530.88	59,503.00	12,311.00		71,814.00
742 MSF - Mainten. Support	6/30/2021	6/30/2021	5,885,478.93			5,885,478.93	117,710.00	117,710.00		235,420.00
747 SLHVC Building	1/7/2022	1/7/2022	3,793,588.70			3,793,588.70	42,625.00	85,249.00		127,874.00
			17,383,244.50	0.00	(123,513.33)	17,259,731.17	2,607,215.22	356,083.00	(50,982.55)	2,912,315.67
130 - Computer Hardware										
88 Rack Server RACK	5/30/2009	5/30/2009	5,700.94			5,700.94	5,700.02			5,700.02
89 Rack Server RACK	5/30/2009	5/30/2009	5,700.94			5,700.94	5,700.02			5,700.02
351 Server Rack	6/30/2010	6/30/2010	7,986.99			7,986.99	7,986.00			7,986.00
352 PLC Mine Monitoring Sy	6/30/2010	6/30/2010	7,910.20			7,910.20	7,910.00			7,910.00
429 PLC Mine Monitoring Sy	7/15/2010	7/15/2010	2,343.71			2,343.71	2,343.00			2,343.00
433 PLC Mine Monitoring Sy	4/1/2011	4/1/2011	19,866.94			19,866.94	19,866.00			19,866.00
549 Apple MP 3.5 1TB 32GB	3/31/2014	3/31/2014	5,170.42			5,170.42	5,170.00			5,170.00
621 Server-HP DL360Gen9 8	8/21/2015	8/21/2015	11,014.87			11,014.87	11,014.00			11,014.00
622 Server HP DL360 Gen9 8	8/21/2015	8/21/2015	11,014.88			11,014.88	11,014.00			11,014.00
645 Toshiba Server (Applicat	6/14/2016	6/14/2016	5,528.00		(5,528.00)	0.00	5,528.00		(5,528.00)	0.00
659 Router MX104 Edge Rou	1/16/2017	1/16/2017	35,725.93			35,725.93	35,725.00			35,725.00
660 Backup Server HP DL380	3/2/2017	3/2/2017	9,536.63			9,536.63	9,536.00			9,536.00
661 Backup Server HP DL380	3/2/2017	3/2/2017	9,536.63		(9,536.63)	0.00	9,536.00		(9,536.00)	0.00
662 Firewall Fortigate800D U	4/2/2017	4/2/2017	12,337.00			12,337.00	12,337.00			12,337.00
663 Firewall Fortigate800D U	4/2/2017	4/2/2017	12,337.00			12,337.00	12,337.00			12,337.00
688 StorageArrayNetworkSAI	9/29/2017	9/29/2017	38,555.00			38,555.00	36,627.00	1,928.00		38,555.00
699 CiscoNexusSwitch 10GE	5/7/2019	5/7/2019	8,125.00			8,125.00	5,146.00	1,625.00		6,771.00
700 Cisco Nexus Switch 48 1	5/7/2019	5/7/2019	8,125.00			8,125.00	5,146.00	1,625.00		6,771.00
705 Cisco Nexus Switch N9K	7/1/2019	7/1/2019	10,909.00			10,909.00	6,546.00	2,182.00		8,728.00
709 Metasys Server Johnson C	9/17/2019	9/17/2019	15,418.00			15,418.00	8,481.00	3,084.00		11,565.00
714 Cisco Nexus Switch9318	1/20/2020	1/20/2020	12,787.50			12,787.50	6,180.00	2,557.00		8,737.00
715 Cisco Nexus Switch 9318	1/20/2020	1/20/2020	12,787.50			12,787.50	6,180.00	2,557.00		8,737.00
716 Cisco Nexus Switch 9318	1/20/2020	1/20/2020	12,787.50			12,787.50	6,180.00	2,557.00		8,737.00
717 Cisco Nexus Switch N93	1/20/2020	1/20/2020	12,787.50			12,787.50	6,180.00	2,557.00		8,737.00
718 Fortinet Firewall	1/20/2020	1/20/2020	18,866.45			18,866.45	9,118.00	3,773.00		12,891.00

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
130 - Computer Hardware										
719 Fortinet Firewall	1/20/2020	1/20/2020	18,866.45			18,866.45	9,118.00	3,773.00		12,891.00
724 AppleMACPro	6/19/2020	6/19/2020	7,907.83			7,907.83	3,162.00	1,581.00		4,743.00
764 Dell VXRAIL E560D Ser	5/6/2022	8/18/2022	20,933.00			20,933.00		3,489.00		3,489.00
765 Dell VXRAIL E560D Ser	5/6/2022	8/18/2022	20,933.00			20,933.00		3,489.00		3,489.00
			381,499.81	0.00	(15,064.63)	366,435.18	269,766.04	36,777.00	(15,064.00)	291,479.04
140 - Equipment & Fixtures										
119 Telephone Equipment	6/1/2006	6/1/2006	3,927.47		(3,927.47)	0.00	3,926.69		(3,926.69)	0.00
120 Kubota RTV900T6H Util	10/31/2006	10/31/2006	16,535.00			16,535.00	16,535.00			16,535.00
121 John Deere 304J Wheel L	11/30/2006	11/30/2006	89,701.26			89,701.26	89,700.83			89,700.83
122 Solomon Corp 1000kva, 1	3/16/2007	3/16/2007	8,017.33			8,017.33	4,050.43	200.00		4,250.43
179 Softstart Controllers 700H	6/30/2007	6/30/2007	167,350.00			167,350.00	167,349.67			167,349.67
123 Oxygen Booster Pumps (7/1/2007	7/1/2007	21,400.00			21,400.00	21,400.00			21,400.00
124 Command Modules Com	7/1/2007	7/1/2007	18,589.00			18,589.00	18,589.00			18,589.00
125 Self-Contained Breathing	7/1/2007	7/1/2007	97,720.00			97,720.00	97,720.00			97,720.00
207 Motor GE 700HP HL840	9/24/2007	9/24/2007	28,370.67			28,370.67	19,852.53	1,418.00		21,270.53
154 700HP Kirk Timberyard :	11/29/2007	11/29/2007	25,860.76		(25,860.76)	0.00	12,068.03	790.00	(12,858.03)	0.00
168 Transformer 225 KVA TI	12/17/2007	12/17/2007	12,355.22			12,355.22	4,325.88	309.00		4,634.88
126 Self-Contained Breathing	12/31/2007	12/31/2007	48,860.00			48,860.00	48,860.00			48,860.00
213 Transformer GE 500KVA	2/27/2008	2/27/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
220 Transformer GE 500KVA	2/27/2008	2/27/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
221 Transformer Howard Ind	2/27/2008	2/27/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
223 Transformer Howard Ind	2/27/2008	2/27/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
224 Transformer Solomon 100	2/27/2008	2/27/2008	5,900.00			5,900.00	2,071.50	148.00		2,219.50
225 Transformer Solomon 100	2/27/2008	2/27/2008	5,900.00			5,900.00	2,071.50	148.00		2,219.50
226 Transformer Solomon 100	2/27/2008	2/27/2008	5,900.00			5,900.00	2,071.50	148.00		2,219.50
227 Transformer Howard Ind	2/27/2008	2/27/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
228 Transformer GE 75KVA	2/27/2008	2/27/2008	5,800.00			5,800.00	2,030.00	145.00		2,175.00
229 Transformer GE 75KVA	2/27/2008	2/27/2008	5,800.00			5,800.00	2,030.00	145.00		2,175.00
230 Transformer GE 75KVA	2/27/2008	2/27/2008	5,800.00			5,800.00	2,030.00	145.00		2,175.00
218 Transformer GE 500KVA	2/28/2008	2/28/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
201 Pump Ingersoll Rand 037	3/12/2008	3/12/2008	91,206.72			91,206.72	51,072.27	3,648.00		54,720.27
211 Transformer GE 500KVA	3/25/2008	3/25/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
212 Transformer GE 500KVA	3/25/2008	3/25/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
214 Transformer Westinghou	3/25/2008	3/25/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
216 Transformer Westinghou	3/25/2008	3/25/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75

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140 - Equipment & Fixtures										
217 Transformer Westinghou	3/25/2008	3/25/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
219 Transformer GE 500KVA	3/25/2008	3/25/2008	7,350.00			7,350.00	2,575.75	184.00		2,759.75
144 Cranes	4/30/2008	4/30/2008	100,509.34			100,509.34	18,760.12	1,340.00		20,100.12
204 Motor GE 700HP FM84C	5/6/2008	5/6/2008	32,772.50			32,772.50	22,945.63	1,639.00		24,584.63
180 Axial Flow Mine Fan 15C	5/30/2008	5/30/2008	53,484.75			53,484.75	37,436.24	2,674.00		40,110.24
142 Base Interface 4 channel	6/18/2008	6/18/2008	6,011.00			6,011.00	6,011.00			6,011.00
132 Telephone System Additi	6/30/2008	6/30/2008	11,371.31		(11,371.31)	0.00	11,371.00		(11,371.00)	0.00
166 Ross Hoist (2)	6/30/2008	6/30/2008	121,842.89			121,842.89	22,749.57	1,625.00		24,374.57
169 Transformer GE 5MVA 1	7/1/2008	7/1/2008	5,000.00			5,000.00	1,750.00	125.00		1,875.00
171 Transformer GE 1500KV	7/1/2008	7/1/2008	5,000.00			5,000.00	1,750.00	125.00		1,875.00
172 Transformer GE 10,000K	7/1/2008	7/1/2008	10,000.00			10,000.00	3,500.00	250.00		3,750.00
173 Transformer GE 20,000K	7/1/2008	7/1/2008	15,000.00			15,000.00	5,250.00	375.00		5,625.00
174 Transformer GE 10,000 K	7/1/2008	7/1/2008	10,000.00			10,000.00	3,500.00	250.00		3,750.00
175 Transformer GE 10,000K	7/1/2008	7/1/2008	10,000.00			10,000.00	3,500.00	250.00		3,750.00
247 MG Sets (2) Yates	7/1/2008	7/1/2008	60,000.00			60,000.00	11,200.00	800.00		12,000.00
235 FLYGT Centrifugal Pumj	7/23/2008	7/23/2008	11,997.23			11,997.23	6,679.90	480.00		7,159.90
202 Pump Ingersoll Rand 213	8/1/2008	8/1/2008	22,508.00			22,508.00	12,525.29	900.00		13,425.29
203 Pump Ingersoll Rand 675	8/1/2008	8/1/2008	130,646.97			130,646.97	72,728.39	5,226.00		77,954.39
236 FLYGT 10HP Pumps (2)	8/1/2008	8/1/2008	12,000.00			12,000.00	6,680.00	480.00		7,160.00
237 FLYGT 15HP Pumps (2)	8/1/2008	8/1/2008	18,000.00			18,000.00	10,020.00	720.00		10,740.00
241 Rotating Biological Cont	8/1/2008	8/1/2008	206,014.95			206,014.95	57,336.94	4,120.00		61,456.94
242 Sand Filter Galiger Pump	8/1/2008	8/1/2008	5,000.00			5,000.00	2,783.00	200.00		2,983.00
243 Sand Filters (3) WWTP	8/1/2008	8/1/2008	45,000.00			45,000.00	12,525.00	900.00		13,425.00
245 Soda Ash System	8/1/2008	8/1/2008	9,573.70			9,573.70	2,658.52	191.00		2,849.52
188 Electric Winch (WE271)	8/15/2008	8/15/2008	47,187.00			47,187.00	13,137.10	944.00		14,081.10
231 Fume Hood for Lab Cabii	8/22/2008	8/22/2008	5,989.95			5,989.95	5,989.16			5,989.16
205 Motor GE 700HP FM84C	8/25/2008	8/25/2008	38,004.39			38,004.39	26,283.52	1,900.00		28,183.52
194 Yates Hoists (2)	8/31/2008	8/31/2008	89,168.26			89,168.26	16,447.76	1,189.00		17,636.76
209 Motor GE 700HP HL840	9/22/2008	9/22/2008	31,362.30			31,362.30	21,560.09	1,568.00		23,128.09
232 Cornell Pumps W/Baldor	10/29/2008	10/29/2008	27,102.98			27,102.98	14,814.75	1,084.00		15,898.75
157 Miller Trailblazer 3020 V	11/5/2008	11/5/2008	7,430.00			7,430.00	7,430.00			7,430.00
206 Motor GE 700HP FM835	11/24/2008	11/24/2008	35,025.30			35,025.30	23,784.57	1,751.00		25,535.57
149 FSM-60S Fusion Splice f	11/28/2008	11/28/2008	19,810.00			19,810.00	17,943.39	1,321.00		19,264.39
136 Admin. Bldg. Heating/Cc	11/30/2008	11/30/2008	32,493.88			32,493.88	32,493.48			32,493.48
238 Hoffinan 3R Wall Mount	12/24/2008	12/24/2008	11,657.72			11,657.72	10,489.59	777.00		11,266.59

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment & Fixtures										
148 Franklin 8" Sand Fighter	12/29/2008	12/29/2008	44,457.42			44,457.42	30,010.44	2,223.00		32,233.44
161 1,000,000BTU Indirect F	12/30/2008	12/30/2008	15,537.00			15,537.00	15,536.85			15,536.85
143 (1) Benshaw Softstart 700	1/6/2009	1/6/2009	35,257.43			35,257.43	31,725.25	2,350.00		34,075.25
162 VFD Pump Controller 15	2/2/2009	2/2/2009	23,100.00			23,100.00	20,661.67	1,540.00		22,201.67
163 VFD Pump Controller 20	2/2/2009	2/2/2009	46,200.00			46,200.00	41,323.33	3,080.00		44,403.33
160 Portable Air Conditioner	2/6/2009	2/6/2009	11,325.40			11,325.40	11,324.89			11,324.89
146 Float Valves for Yates (1	2/9/2009	2/9/2009	114,346.31		(114,346.31)	0.00	114,346.31		(114,346.31)	0.00
769 Float Valve for Yates	2/9/2009	2/9/2009	8,167.59			8,167.59	8,167.00			8,167.00
770 Float Valve for Yates	2/9/2009	2/9/2009	8,167.59			8,167.59	8,167.00			8,167.00
145 Crane #6 Winze Undergra	2/19/2009	2/19/2009	10,631.95			10,631.95	1,893.25	142.00		2,035.25
200 Pump Ingersoll Rand 107	2/25/2009	2/25/2009	122,676.93			122,676.93	65,426.69	4,907.00		70,333.69
208 Motor GE 700HP ZRH28	3/5/2009	3/5/2009	27,154.00			27,154.00	18,106.57	1,358.00		19,464.57
158 3000HP American David	3/6/2009	3/6/2009	78,752.15			78,752.15	35,000.02	2,625.00		37,625.02
199 Pump Ingersoll Rand 100	3/28/2009	3/28/2009	147,258.51			147,258.51	78,042.59	5,890.00		83,932.59
192 Western Tornado Sand S	4/1/2009	4/1/2009	5,168.50		(5,168.50)	0.00	5,168.21		(5,168.21)	0.00
147 Danfoss Flowmatic Chec	4/2/2009	4/2/2009	6,919.11		(6,919.11)	0.00	6,918.98		(6,918.98)	0.00
198 Pump Ingersoll Rand 372	4/30/2009	4/30/2009	55,987.45			55,987.45	29,480.25	2,239.00		31,719.25
181 Trojan 3.25 Locomotive	6/10/2009	6/10/2009	47,115.60			47,115.60	27,553.00	2,106.00		29,659.00
182 Battery for Trojan Locom	6/10/2009	6/10/2009	11,000.00		(11,000.00)	0.00	10,999.95		(10,999.95)	0.00
153 Huron 560 Wall Tank and	6/11/2009	6/11/2009	6,098.08			6,098.08	3,990.41	305.00		4,295.41
138 Ansul Inergen Fire Suppr	6/23/2009	6/23/2009	12,919.00			12,919.00	11,193.00	861.00		12,054.00
155 Lift Bag Kit Light US&R	6/25/2009	6/25/2009	16,750.00			16,750.00	16,750.00			16,750.00
135 Telephone Expansion	6/26/2009	6/26/2009	28,249.27		(28,249.27)	0.00	28,249.00		(28,249.00)	0.00
140 2008 Artic Cat 700 Dese	6/30/2009	6/30/2009	10,244.54			10,244.54	9,732.00			9,732.00
141 2008 Artic Cat 700 Dese	6/30/2009	6/30/2009	10,244.55			10,244.55	9,732.00			9,732.00
195 Ross Fuel Tank/Stand/Cc	6/30/2009	6/30/2009	21,100.39			21,100.39	21,100.00			21,100.00
353 JD Skid Steer 315 W/CE	7/18/2009	7/18/2009	23,241.00			23,241.00	23,241.00			23,241.00
354 Trojan 3.25 Locomotive	8/28/2009	8/28/2009	46,692.71			46,692.71	26,757.00	2,085.00		28,842.00
355 .36Cell/72 Volt Battery f	8/28/2009	8/28/2009	11,000.00			11,000.00	11,000.00			11,000.00
358 High Voltage Cable Testi	9/23/2009	9/23/2009	7,920.00			7,920.00	7,920.00			7,920.00
359 Water Meter LUX Surfac	10/1/2009	10/1/2009	6,011.30			6,011.30	6,011.00			6,011.00
360 Wall Mounted Enclosure	10/1/2009	10/1/2009	7,200.00			7,200.00	6,120.00	480.00		6,600.00
361 8-1/2' Western Ultramou	10/1/2009	10/1/2009	5,309.25			5,309.25	5,309.00			5,309.00
362 Benshaw Softstart 700HF	10/1/2009	10/1/2009	35,257.43			35,257.43	29,963.00	2,350.00		32,313.00
364 Vertical Diesel Symo Pov	10/22/2009	10/22/2009	8,665.05			8,665.05	8,665.00			8,665.00

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment & Fixtures										
365 Vertical Diesel Symo Pov	10/22/2009	10/22/2009	5,721.30			5,721.30	5,721.00			5,721.00
366 Wall Mounted Enclosure	11/1/2009	11/1/2009	7,200.00			7,200.00	6,080.00	480.00		6,560.00
367 Spendrup 350HP Fan at C	11/1/2009	11/1/2009	83,092.63		(83,092.63)	0.00	52,630.00	3,808.00	(56,438.00)	0.00
368 500KVA Transformer3 P	11/1/2009	11/1/2009	18,465.41		(18,465.41)	0.00	5,852.00	423.00	(6,275.00)	0.00
369 Baldor VFD Motors 350H	11/1/2009	11/1/2009	61,000.00			61,000.00	38,633.00	3,050.00		41,683.00
370 Benshaw Switch Disconn	11/1/2009	11/1/2009	8,791.96		(8,791.96)	0.00	7,423.00	537.00	(7,960.00)	0.00
371 GE700HP GE Pump Mot	11/1/2009	11/1/2009	31,986.00			31,986.00	20,254.00	1,599.00		21,853.00
372 350HP Spendrup Fan at #	11/10/2009	11/10/2009	106,641.04			106,641.04	67,539.00	5,332.00		72,871.00
374 S&C PMX Modular Meta	12/1/2009	12/1/2009	27,059.00			27,059.00	22,700.00	1,804.00		24,504.00
375 GE 8000 Series Breaker I	12/3/2009	12/3/2009	6,464.69			6,464.69	5,423.00	431.00		5,854.00
376 GE Spectra Series Switch	12/3/2009	12/3/2009	7,239.85			7,239.85	6,078.00	483.00		6,561.00
377 (2) A Bradley Powerflex .	12/3/2009	12/3/2009	15,068.40		(15,068.40)	0.00	12,646.00	921.00	(13,567.00)	0.00
378 Multi Media Sand Filter S	12/3/2009	12/3/2009	615,021.84			615,021.84	154,775.00	12,300.00		167,075.00
397 Telephone System Upgra	12/7/2009	12/7/2009	17,712.14		(17,712.14)	0.00	17,712.00		(17,712.00)	0.00
379 Johnson Controls HVAC	1/1/2010	1/1/2010	18,921.00			18,921.00	18,921.00			18,921.00
380 Johnson Controls HVAC	1/1/2010	1/1/2010	20,427.00			20,427.00	20,427.00			20,427.00
381 HVAC Air Handling Uni	1/1/2010	1/1/2010	20,862.92			20,862.92	20,862.00			20,862.00
382 Chemical Outdoor Storag	1/15/2010	1/15/2010	28,869.55			28,869.55	18,038.00	1,443.00		19,481.00
383 HydraulicClamb/Pneuma	1/25/2010	1/25/2010	26,940.00		(26,940.00)	0.00	26,940.00		(26,940.00)	0.00
384 Fire Pump	2/1/2010	2/1/2010	13,163.08			13,163.08	13,163.00			13,163.00
385 Jockey Pump	2/1/2010	2/1/2010	13,163.08			13,163.08	13,163.00			13,163.00
386 HY-25XLT 2-1/2" Sq Dr	2/4/2010	2/4/2010	13,957.43			13,957.43	13,957.00			13,957.00
399 Telephone System LUX S	2/15/2010	2/15/2010	9,218.04		(9,218.04)	0.00	9,218.00		(9,218.00)	0.00
387 Wall Mounted Enclosure	3/1/2010	3/1/2010	7,200.00			7,200.00	5,920.00	480.00		6,400.00
388 S&C PMX Modular Meta	3/1/2010	3/1/2010	27,059.00			27,059.00	22,249.00	1,804.00		24,053.00
389 GE Switchgear	3/1/2010	3/1/2010	58,844.32			58,844.32	48,384.00	3,923.00		52,307.00
390 MQ Generator 15KW Mc	3/1/2010	3/1/2010	10,117.00			10,117.00	10,117.00			10,117.00
391 Atlas Copco XAS 185 CI	3/1/2010	3/1/2010	8,924.50			8,924.50	8,924.00			8,924.00
392 Atlas Copco XAS 185 CI	3/1/2010	3/1/2010	8,924.50			8,924.50	8,924.00			8,924.00
393 115V PSI Hytorc Pump	3/30/2010	3/30/2010	5,108.37			5,108.37	5,108.00			5,108.00
394 Clean Room-Surface Lab	5/31/2010	5/31/2010	116,000.00			116,000.00	116,000.00			116,000.00
395 S&C Metal Enclosed Fus	6/30/2010	6/30/2010	7,200.00			7,200.00	5,760.00	480.00		6,240.00
398 Telephone System Upgra	6/30/2010	6/30/2010	8,451.00		(8,451.00)	0.00	8,451.00		(8,451.00)	0.00
400 Telephone System Ross I	6/30/2010	6/30/2010	6,683.90		(6,683.90)	0.00	6,683.00		(6,683.00)	0.00
426 S&C Wall-Mounted Meta	7/1/2010	7/1/2010	7,200.00			7,200.00	5,760.00	480.00		6,240.00

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment & Fixtures										
430 Chem Grout Machine Pu	7/29/2010	7/29/2010	5,500.00			5,500.00	5,500.00			5,500.00
420 Bobcat Skidsteer S300 D	8/2/2010	8/2/2010	33,030.64			33,030.64	33,030.00			33,030.00
423 Air Compressor 125HP F	9/1/2010	9/1/2010	18,515.00			18,515.00	18,515.00			18,515.00
421 S&C PMX Modular Met	9/16/2010	9/16/2010	27,059.00			27,059.00	21,197.00	1,804.00		23,001.00
439 Ross Dry Phone/Data Sys	9/24/2010	9/24/2010	9,183.36		(9,183.36)	0.00	9,183.00		(9,183.00)	0.00
440 Ross Shaft UG Phone/Da	10/25/2010	10/25/2010	8,550.63		(8,550.63)	0.00	8,550.00		(8,550.00)	0.00
441 Yates E&O Phone/Data S	11/30/2010	11/30/2010	12,314.24		(12,314.24)	0.00	12,314.00		(12,314.00)	0.00
424 Radon Monitor Alphagua	12/1/2010	12/1/2010	15,028.98			15,028.98	15,028.00			15,028.00
418 Loader 2007 LT 210 #07-	1/27/2011	1/27/2011	195,000.00			195,000.00	195,000.00			195,000.00
427 Shotcrete Mixing Auger	2/28/2011	2/28/2011	18,450.00		(18,450.00)	0.00	18,450.00		(18,450.00)	0.00
438 Admin Building Phone/D	3/1/2011	3/1/2011	3,876.26		(3,876.26)	0.00	3,876.00		(3,876.00)	0.00
432 Loader 2007 LT350 #07-	5/31/2011	5/31/2011	230,000.00			230,000.00	230,000.00			230,000.00
451 JD XAS 375 CFM Air C	9/1/2011	9/1/2011	27,900.00			27,900.00	27,900.00			27,900.00
469 Transformer 45KVA 600	9/1/2011	9/1/2011	5,298.00			5,298.00	1,430.00	132.00		1,562.00
453 Battery Charger for 9-Tor	1/1/2012	1/1/2012	6,127.78			6,127.78	6,127.00			6,127.00
454 Lefon Portable Electric P	1/4/2012	1/4/2012	8,218.50			8,218.50	8,218.00			8,218.00
459 JD 315 Skid Steer W/Buc	2/10/2012	2/10/2012	25,234.00			25,234.00	25,234.00			25,234.00
457 GE 1500KVA 480/277V	3/1/2012	3/1/2012	102,230.90			102,230.90	26,412.00	2,556.00		28,968.00
458 GE Switchboard 1500KV	3/1/2012	3/1/2012	20,762.10			20,762.10	14,301.00	1,384.00		15,685.00
462 Yates Hoist South Cage	5/1/2012	5/1/2012	123,484.05			123,484.05	123,484.00			123,484.00
480 Rope Dog System Yates	5/1/2012	5/1/2012	69,642.40			69,642.40	69,642.00			69,642.00
599 Yates Rope Dog System	5/1/2012	5/1/2012	227,216.99			227,216.99	150,806.87	15,148.00		165,954.87
463 Caterpillar Diesel Genera	5/3/2012	5/3/2012	54,313.83			54,313.83	54,313.00			54,313.00
470 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	14,560.00	1,444.00		16,004.00
471 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	14,560.00	1,444.00		16,004.00
472 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	14,560.00	1,444.00		16,004.00
473 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	14,560.00	1,444.00		16,004.00
474 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	14,560.00	1,444.00		16,004.00
475 Multilin PQM II Meter fo	6/1/2012	6/1/2012	5,389.00			5,389.00	3,620.00	359.00		3,979.00
496 Justice Fire & Safety Pan	7/1/2012	7/1/2012	7,588.00			7,588.00	5,060.00	506.00		5,566.00
497 Quincy Air Regulator	7/1/2012	7/1/2012	17,788.76			17,788.76	17,788.00			17,788.00
498 Cornell McKeon Rollup l	7/1/2012	7/1/2012	8,980.00			8,980.00	5,990.00	599.00		6,589.00
499 Rheem Water Heater	7/1/2012	7/1/2012	10,070.00			10,070.00	10,070.00			10,070.00
500 Johnson Controls Air Ha	7/1/2012	7/1/2012	25,071.00			25,071.00	25,071.00			25,071.00
501 Johnson Controls Air Ha	7/1/2012	7/1/2012	21,529.00			21,529.00	21,529.00			21,529.00

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment & Fixtures										
502 Johnson Controls Air Ha	7/1/2012	7/1/2012	21,529.00			21,529.00	21,529.00			21,529.00
503 Johnson Controls Air Ha	7/1/2012	7/1/2012	17,039.00			17,039.00	17,039.00			17,039.00
506 Johnson Controls Air Ha	7/1/2012	7/1/2012	17,436.00			17,436.00	17,436.00			17,436.00
525 Line Power Transformers	7/1/2012	7/1/2012	5,000.00			5,000.00	1,250.00	125.00		1,375.00
526 LN Tank Concrete Pad	8/1/2012	8/1/2012	7,920.00			7,920.00	3,927.00	396.00		4,323.00
484 R&M Hoist 7.5 Ton	8/2/2012	8/2/2012	19,510.50			19,510.50	19,347.00	163.00		19,510.00
485 R&M Hoist 10 Ton	8/2/2012	8/2/2012	21,560.50		(21,560.50)	0.00	21,380.00	180.00	(21,560.00)	0.00
486 LUX Water Treatment Sy	9/25/2012	9/25/2012	147,582.73			147,582.73	95,930.00	9,839.00		105,769.00
508 S205 Skidsteer W/Forks	10/19/2012	10/19/2012	21,000.00			21,000.00	20,300.00	700.00		21,000.00
495 LUX Water Tank 4850	10/22/2012	10/22/2012	364,225.82			364,225.82	234,726.00	24,282.00		259,008.00
524 Line Power Transformer	12/10/2012	12/10/2012	8,000.00			8,000.00	1,917.00	200.00		2,117.00
513 Caterpillar Diesel Genera	2/1/2013	2/1/2013	28,434.00			28,434.00	26,772.00	1,662.00		28,434.00
528 25HP Diesel Hydraulic P	6/15/2013	6/15/2013	11,070.85			11,070.85	10,055.00	1,015.00		11,070.00
536 IT Generator Concrete Pa	8/1/2013	8/1/2013	6,640.00			6,640.00	2,960.00	332.00		3,292.00
538 Yates Loading Dock	9/9/2013	9/9/2013	7,040.00			7,040.00	2,491.00	282.00		2,773.00
540 IT Generator Install	10/31/2013	10/31/2013	28,056.44			28,056.44	24,318.00	2,806.00		27,124.00
554 Hitachi CPWU9410 Proj	1/18/2014	1/18/2014	13,228.18		(13,228.18)	0.00	11,135.00	1,213.00	(12,348.00)	0.00
542 Chem Grout Machine Pu	3/10/2014	3/10/2014	5,909.59			5,909.59	4,925.00	591.00		5,516.00
547 Bolter J.H. Fletcher & Co	4/25/2014	4/25/2014	546,642.95			546,642.95	178,572.00	21,866.00		200,438.00
550 Big Blue 300 Pro Kubota	5/2/2014	5/2/2014	10,445.00			10,445.00	8,526.00	1,044.00		9,570.00
551 Big Blue 300 Pro Kubota	5/2/2014	5/2/2014	10,445.00			10,445.00	8,526.00	1,044.00		9,570.00
548 2014 Toolmaster Trailer	5/8/2014	5/8/2014	11,200.00			11,200.00	9,147.00	1,120.00		10,267.00
553 Ultrasonic Flaw Detector	6/9/2014	6/9/2014	11,742.78			11,742.78	9,490.00	1,174.00		10,664.00
579 Line Power Skid Transfo	7/1/2014	7/1/2014	5,000.00			5,000.00	1,000.00	125.00		1,125.00
580 Line Power Skid Transfo	7/1/2014	7/1/2014	8,000.00			8,000.00	1,600.00	200.00		1,800.00
566 Davis Campus Dehumidi	7/22/2014	7/22/2014	508,965.03			508,965.03	402,927.00	50,896.00		453,823.00
565 Fisher 2" Valves (2)	8/8/2014	8/8/2014	13,554.96			13,554.96	10,727.00	1,355.00		12,082.00
568 Canon EOS C100 Cinem	8/8/2014	8/8/2014	5,499.00			5,499.00	5,499.00			5,499.00
569 WTP Mix Tank	8/27/2014	8/27/2014	110,641.63			110,641.63	34,670.00	4,426.00		39,096.00
572 HVAC Unit - Adm. Builc	10/10/2014	10/10/2014	17,358.78			17,358.78	13,454.00	1,736.00		15,190.00
577 Pressure Tank 660Gal.on	11/5/2014	11/5/2014	6,081.27		(6,081.27)	0.00	4,661.00	557.00	(5,218.00)	0.00
574 Yates Work Platform (Sk	12/22/2014	12/22/2014	30,419.20		(30,419.20)	0.00	22,815.00	2,788.00	(25,603.00)	0.00
575 Thern Winch (Helical-Be	12/23/2014	12/23/2014	7,909.00			7,909.00	5,932.00	791.00		6,723.00
581 Mining Controls Portable	1/1/2015	1/1/2015	5,000.00		(5,000.00)	0.00	937.00	115.00	(1,052.00)	0.00
578 JLG Electric Scissor Lift	2/24/2015	2/24/2015	20,470.00			20,470.00	15,011.00	2,047.00		17,058.00

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment & Fixtures										
589 Topcon GPT Data Collec	6/30/2015	6/30/2015	9,850.00			9,850.00	9,850.00			9,850.00
590 Wolverine 25D Hydraulic	6/30/2015	6/30/2015	12,816.00			12,816.00	12,816.00			12,816.00
593 Mini Track Loader	6/30/2015	6/30/2015	22,546.19		(22,546.19)	0.00	22,545.78		(22,545.78)	0.00
595 IT Generac Generator	6/30/2015	6/30/2015	26,208.14			26,208.14	26,207.76			26,207.76
596 Kubota RTV Utility	6/30/2015	6/30/2015	11,542.33			11,542.33	11,542.14			11,542.14
597 Kubota RTV Utility	6/30/2015	6/30/2015	11,542.33			11,542.33	11,542.14			11,542.14
598 HD Video Conferencing	6/30/2015	6/30/2015	13,990.26			13,990.26	13,990.08			13,990.08
636 Neutron Doors (2)Lead R	7/1/2015	7/1/2015	89,520.00			89,520.00	62,664.00	8,952.00		71,616.00
640 DDX Preaction Valve Re	7/22/2015	7/22/2015	12,801.00			12,801.00	8,853.00	1,280.00		10,133.00
637 Lighting Inverter Ross C	7/31/2015	7/31/2015	10,000.00			10,000.00	6,917.00	1,000.00		7,917.00
638 Transformer 300KVA 12	7/31/2015	7/31/2015	20,572.35			20,572.35	3,555.00	514.00		4,069.00
639 Fire Alarm Panel Ross C	7/31/2015	7/31/2015	18,291.60			18,291.60	8,432.00	1,219.00		9,651.00
610 S&CMetal Encl.Switchge	8/1/2015	8/1/2015	81,000.00			81,000.00	37,350.00	5,400.00		42,750.00
629 AHU-1-Ross Campus Air	9/9/2015	9/9/2015	12,695.62			12,695.62	8,678.00	1,270.00		9,948.00
630 AHU-2-Ross Campus Air	9/9/2015	9/9/2015	12,695.62			12,695.62	8,678.00	1,270.00		9,948.00
631 DOAS-1Ross Campus Air	9/9/2015	9/9/2015	11,691.80			11,691.80	7,988.00	1,169.00		9,157.00
632 Chiller CH-1 Ross Camp	9/9/2015	9/9/2015	57,680.96			57,680.96	39,415.00	5,768.00		45,183.00
633 AHU-1 BSUCleanroom /	9/9/2015	9/9/2015	20,988.00			20,988.00	14,343.00	2,099.00		16,442.00
634 Heat Exchanger Ross Cau	9/9/2015	9/9/2015	26,581.62			26,581.62	18,163.00	2,658.00		20,821.00
635 Liq.NitrogenDistri.Syster	9/9/2015	9/9/2015	22,654.00			22,654.00	15,478.00	2,265.00		17,743.00
612 Polycom16ChannelMicM	10/14/2015	10/14/2015	8,030.30		(8,030.30)	0.00	8,030.00		(8,030.00)	0.00
613 3-Series Digital Media Pr	10/14/2015	10/14/2015	7,464.30		(7,464.30)	0.00	7,464.00		(7,464.00)	0.00
614 Polycom EagleEyeVCam	10/14/2015	10/14/2015	12,259.30		(12,259.30)	0.00	12,259.00		(12,259.00)	0.00
615 Hitachi CPWU9411 Proj	10/14/2015	10/14/2015	13,803.30			13,803.30	13,803.00			13,803.00
616 SMART Board 84 Flat Pa	10/14/2015	10/14/2015	16,331.32			16,331.32	16,331.00			16,331.00
617 Polycom 16 Channel Mic	10/14/2015	10/14/2015	8,030.30			8,030.30	8,030.00			8,030.00
618 Polycom 16Channel Micl	10/14/2015	10/14/2015	8,030.30		(8,030.30)	0.00	8,030.00		(8,030.00)	0.00
619 Crestron 3 Series Digital	10/14/2015	10/14/2015	7,464.30		(7,464.30)	0.00	7,464.00		(7,464.00)	0.00
620 Polycom Eagle Eye V Ca	10/14/2015	10/14/2015	12,259.30		(12,259.30)	0.00	12,259.00		(12,259.00)	0.00
611 Yates Skip Bonnet E-Z F	10/24/2015	10/24/2015	30,147.20			30,147.20	20,100.00	3,015.00		23,115.00
628 ET Globe Valve - Fisher	2/8/2016	2/8/2016	8,978.72			8,978.72	5,762.00	898.00		6,660.00
625 LG 79" TV	3/14/2016	3/14/2016	8,040.11			8,040.11	8,040.00			8,040.00
626 Cable Puller Assembly	3/16/2016	3/16/2016	5,763.01			5,763.01	3,600.00	576.00		4,176.00
651 Yates Skip Bonnet W/De	3/25/2016	3/25/2016	16,040.25			16,040.25	10,025.00	1,604.00		11,629.00
627 IVAC PV500 Vacuum Sy	5/27/2016	5/27/2016	47,984.50			47,984.50	29,188.00	4,798.00		33,986.00

Cost of Fixed AssetsAccumulated Depreciation

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment & Fixtures										
654 Snow Plow 8'6" VPlow Jr	12/6/2016	12/6/2016	6,594.00			6,594.00	3,680.00	659.00		4,339.00
656 Milliken 16"Eccent.Plug	1/3/2017	1/3/2017	10,030.30			10,030.30	5,517.00	1,003.00		6,520.00
657 Milliken 8" Eccent. Plug	1/3/2017	1/3/2017	5,746.55			5,746.55	3,162.00	575.00		3,737.00
658 McCrometer Mag-Flo Me	1/3/2017	1/3/2017	6,979.65			6,979.65	3,839.00	698.00		4,537.00
676 Radon Removal System	6/30/2017	6/30/2017	421,974.38			421,974.38	210,985.00	42,197.00		253,182.00
678 Atlas Copco Air Compres	6/30/2017	6/30/2017	26,300.00			26,300.00	13,150.00	2,630.00		15,780.00
679 Atlas Copco Air Dryer R	6/30/2017	6/30/2017	7,425.00			7,425.00	3,710.00	742.00		4,452.00
680 RO Reverse Osmosis Sys	6/30/2017	6/30/2017	49,328.24			49,328.24	24,665.00	4,933.00		29,598.00
681 FCU-1 Fan-RadonRemBl	6/30/2017	6/30/2017	7,556.82			7,556.82	3,780.00	756.00		4,536.00
692 Mini Split HVAC Refuge	7/24/2018	7/24/2018	7,143.25			7,143.25	2,797.00	714.00		3,511.00
693 Mini Split HVAC 4850'L	9/19/2018	9/19/2018	7,143.25			7,143.25	2,678.00	714.00		3,392.00
694 Forklift 5000#UsedMode	11/8/2018	11/8/2018	16,625.00			16,625.00	6,094.00	1,662.00		7,756.00
695 LZ Water Tank Modifica	12/1/2018	12/1/2018	123,441.52			123,441.52	29,487.00	8,229.00		37,716.00
696 (3) Hitachi Projector/Len	12/20/2018	12/20/2018	45,436.00			45,436.00	15,904.00	4,544.00		20,448.00
703 HVAC Unit E & O Bldg.	6/25/2019	6/25/2019	13,134.62			13,134.62	3,939.00	1,313.00		5,252.00
704 HVAC Unit E & O Bldg.	6/25/2019	6/25/2019	13,134.63			13,134.63	3,939.00	1,313.00		5,252.00
726 Flygt27HP-Pump BS2670	7/1/2019	7/1/2019	22,870.00			22,870.00	6,861.00	2,287.00		9,148.00
706 (4) IT Air Cond. Mini Sp	7/10/2019	7/10/2019	21,651.00			21,651.00	6,495.00	2,165.00		8,660.00
707 (3)Natural Gas Water He	8/27/2019	8/27/2019	22,220.00			22,220.00	6,296.00	2,222.00		8,518.00
708 Yates Work Deck Screen	9/11/2019	9/11/2019	14,696.65			14,696.65	4,165.00	1,470.00		5,635.00
711 (2) Security Tilt-Away G	10/29/2019	10/29/2019	62,600.00			62,600.00	16,693.00	6,260.00		22,953.00
720 Boss Laser Engraver	1/24/2020	1/24/2020	9,997.00			9,997.00	2,417.00	1,000.00		3,417.00
723 3D Camera Insta360PRO	6/4/2020	6/4/2020	5,251.00			5,251.00	2,188.00	1,050.00		3,238.00
727 HVAC Admin.Bldg	9/21/2020	9/21/2020	18,763.00			18,763.00	3,283.00	1,876.00		5,159.00
728 HVAC Admin. Bldg.	9/21/2020	9/21/2020	18,763.00			18,763.00	3,283.00	1,876.00		5,159.00
729 HVAC Admin. Bldg.	9/21/2020	9/21/2020	18,764.00			18,764.00	3,283.00	1,876.00		5,159.00
731 Ellis Band Saw MSFBldg	4/23/2021	4/23/2021	6,419.00			6,419.00	749.00	642.00		1,391.00
736 Toyota Forklift-Yr. 2014	5/4/2021	5/4/2021	17,476.00			17,476.00	2,039.00	1,748.00		3,787.00
732 Air Compressor Champic	5/7/2021	5/7/2021	5,910.00			5,910.00	689.00	591.00		1,280.00
733 Hydraulic Air Press 50 T	5/20/2021	5/20/2021	11,575.26			11,575.26	1,254.00	1,158.00		2,412.00
735 MSF 10 Ton Bridge Cran	5/21/2021	5/21/2021	63,850.00			63,850.00	922.00	851.00		1,773.00
737 Elevator MSF Bldg.	5/26/2021	5/26/2021	64,615.00			64,615.00	6,999.00	6,461.00		13,460.00
739 150KVA Transformer Po	5/26/2021	5/26/2021	29,920.00			29,920.00	3,241.00	2,992.00		6,233.00
740 150KVA Transformer Pw	5/26/2021	5/26/2021	29,920.00			29,920.00	3,241.00	2,992.00		6,233.00
734 Laser Alignment System	5/27/2021	5/27/2021	8,465.45			8,465.45	917.00	846.00		1,763.00

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment & Fixtures										
741 HP Plotter DesignJetT260	6/17/2021	6/17/2021	10,550.00			10,550.00	1,055.00	1,055.00		2,110.00
743 Circular Cold Saw 480V-	7/13/2021	7/13/2021	7,560.00			7,560.00	756.00	756.00		1,512.00
744 50T Iron Worker - MSF	7/13/2021	7/13/2021	12,490.00			12,490.00	1,249.00	1,249.00		2,498.00
745 Water Heater Adm. Bldg	7/14/2021	7/14/2021	17,948.81			17,948.81	1,795.00	1,795.00		3,590.00
746 Scrubber 130AH W/Char	8/4/2021	8/4/2021	11,300.00			11,300.00	1,036.00	1,130.00		2,166.00
755 Refuge Chamber-KAJV I	1/1/2022	1/1/2022	62,447.10			62,447.10	3,122.00	6,245.00		9,367.00
748 SLHVC Sign	1/7/2022	1/7/2022	7,537.50			7,537.50	837.00	1,675.00		2,512.00
749 SLHVC Davis Ring	1/7/2022	1/7/2022	52,132.77			52,132.77	1,798.00	3,595.00		5,393.00
761 Joy Fan (Used) - Orange	5/1/2022	5/1/2022	6,709.50			6,709.50	56.00	335.00		391.00
762 Termination Cabinets-Me	5/1/2022	5/1/2022	15,914.48			15,914.48	177.00	1,061.00		1,238.00
763 SLHVC Display Panels L	7/1/2022	7/1/2022		43,691.00		43,691.00		8,738.00		8,738.00
767 20' Mobile Mini Storage	10/4/2022	10/4/2022		7,413.00		7,413.00		556.00		556.00
768 Wesco Stair Climbing Ap	12/30/2022	12/30/2022		6,647.56		6,647.56		475.00		475.00
			10,199,778.00	57,751.56	(607,983.84)	9,649,545.72	6,193,702.27	469,218.00	(543,287.95)	6,119,632.32
150 - Furniture & Fixtures										
250 6X8 Workstations - Adm	12/31/2008	12/31/2008	67,297.83			67,297.83	60,561.26	4,486.00		65,047.26
			67,297.83	0.00	0.00	67,297.83	60,561.26	4,486.00	0.00	65,047.26
160 - Improvements										
189 Carpet - Admin Bldg	4/25/2006	4/25/2006	6,589.30		(6,589.30)	0.00	6,589.29		(6,589.29)	0.00
283 Office Remodel - Admin	6/1/2006	6/1/2006	19,584.00			19,584.00	19,584.00			19,584.00
284 Office Remodel/Painting	6/1/2006	6/1/2006	10,898.27			10,898.27	10,898.27			10,898.27
285 Yates Building Renovatio	2/14/2007	2/14/2007	16,714.32			16,714.32	5,283.43	334.00		5,617.43
263 Power Line East Sub Stat	7/27/2007	7/27/2007	31,222.00			31,222.00	8,736.44	624.00		9,360.44
269 Ross Guard Station	5/31/2008	5/31/2008	8,617.06			8,617.06	2,408.34	172.00		2,580.34
271 Ross Hoist Building	6/30/2008	6/30/2008	197,674.59			197,674.59	55,342.49	3,953.00		59,295.49
286 Kitchen Improvements -	6/30/2008	6/30/2008	5,792.72			5,792.72	1,623.85	116.00		1,739.85
259 Gas Line System (Existin	7/1/2008	7/1/2008	5,795.00			5,795.00	3,247.80	232.00		3,479.80
261 Parking Lot - Admin Are	7/1/2008	7/1/2008	60,000.00			60,000.00	42,000.00	3,000.00		45,000.00
264 Power Line Oro Hondo 6'	7/1/2008	7/1/2008	8,250.00			8,250.00	2,310.00	165.00		2,475.00
265 Power Line Ross 69KV P	7/1/2008	7/1/2008	25,000.00			25,000.00	7,000.00	500.00		7,500.00
267 Rail System Underground	7/1/2008	7/1/2008	61,267.89			61,267.89	17,150.36	1,225.00		18,375.36
275 Ross Yard (Gravel Yard)	7/1/2008	7/1/2008	22,277.00			22,277.00	7,797.93	557.00		8,354.93
282 Yates Yard (Gravel Yard)	7/1/2008	7/1/2008	16,282.20			16,282.20	5,698.06	407.00		6,105.06
277 Yates Gas Line	11/24/2008	11/24/2008	17,695.65			17,695.65	9,616.90	708.00		10,324.90
288 Carpet/Vinyl - Admin Bl	1/1/2009	1/1/2009	53,826.21			53,826.21	53,826.21			53,826.21

Year to Date 7/1/2022 through 6/30/2023

Cost of Fixed AssetsAccumulated Depreciation

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
160 - Improvements										
256 Communications - Ross S	2/18/2009	2/18/2009	10,340.00			10,340.00	9,186.78	689.00		9,875.78
257 Communications - Yates	2/18/2009	2/18/2009	57,716.63			57,716.63	51,306.59	3,848.00		55,154.59
266 Ross Warehouse Improve	2/25/2009	2/25/2009	16,200.00			16,200.00	4,320.00	324.00		4,644.00
270 Ross Headframe Crusher	3/1/2009	3/1/2009	26,409.12			26,409.12	7,040.06	528.00		7,568.06
278 Yates Headframe/Crushe	3/1/2009	3/1/2009	33,519.74			33,519.74	8,933.46	670.00		9,603.46
280 Yates Safety/Dry Buildin	3/1/2009	3/1/2009	52,177.41			52,177.41	13,919.85	1,044.00		14,963.85
260 IT Room Electrical/Instal	3/4/2009	3/4/2009	41,618.32			41,618.32	27,746.64	2,081.00		29,827.64
279 Yates Hoist Building	4/14/2009	4/14/2009	159,110.28			159,110.28	42,161.55	3,182.00		45,343.55
272 Ross Pump System	6/12/2009	6/12/2009	963,663.60			963,663.60	504,323.00	38,547.00		542,870.00
258 Fiber Optic Network Syst	6/30/2009	6/30/2009	17,541.98			17,541.98	11,401.00	877.00		12,278.00
262 Power Distribution	6/30/2009	6/30/2009	783,887.52			783,887.52	203,814.00	15,678.00		219,492.00
268 Ross Dry Building	6/30/2009	6/30/2009	63,368.30			63,368.30	16,471.00	1,267.00		17,738.00
273 Ross Shaft	6/30/2009	6/30/2009	9,773,260.40			9,773,260.40	2,541,045.00	195,465.00		2,736,510.00
274 Ross Substation	6/30/2009	6/30/2009	277,760.27			277,760.27	72,215.00	5,555.00		77,770.00
276 WWTP Improvements	6/30/2009	6/30/2009	660,400.84			660,400.84	171,704.00	13,208.00		184,912.00
281 Yates Shaft	6/30/2009	6/30/2009	4,694,581.28			4,694,581.28	1,220,596.00	93,892.00		1,314,488.00
287 Admin Bldg Improvemen	6/30/2009	6/30/2009	382,643.40			382,643.40	99,489.00	7,653.00		107,142.00
407 Ross Substation Upgrade	3/1/2010	3/1/2010	79,000.94			79,000.94	19,487.00	1,580.00		21,067.00
409 Yates Shaft	4/1/2010	4/1/2010	2,185,614.49			2,185,614.49	535,472.00	43,712.00		579,184.00
402 LUX Surface Lab	5/1/2010	5/1/2010	1,563,830.79			1,563,830.79	380,537.00	31,277.00		411,814.00
403 Oro Hondo Substation Uj	5/15/2010	5/15/2010	85,015.90			85,015.90	20,683.00	1,700.00		22,383.00
404 Pole Frame Building	6/1/2010	6/1/2010	14,183.70			14,183.70	3,432.00	284.00		3,716.00
408 Yates Fencing	6/15/2010	6/15/2010	10,469.70			10,469.70	6,320.00	523.00		6,843.00
401 Fiber Optic Network Syst	6/30/2010	6/30/2010	19,495.55			19,495.55	11,700.00	975.00		12,675.00
405 Power Distribution Upgr	6/30/2010	6/30/2010	341,565.29			341,565.29	81,972.00	6,831.00		88,803.00
406 Ross Pumping System	6/30/2010	6/30/2010	159,652.84			159,652.84	76,632.00	6,386.00		83,018.00
447 Yates Parking Lot Resurf	9/24/2010	9/24/2010	259,641.41			259,641.41	259,641.00			259,641.00
445 Majorana Shotcreting Imj	10/15/2010	10/15/2010	268,602.24			268,602.24	105,198.00	8,953.00		114,151.00
428 Ross Dry Renovations	10/30/2010	10/30/2010	243,726.84			243,726.84	56,875.00	4,875.00		61,750.00
431 Yates E&O Dry Renovati	11/30/2010	11/30/2010	214,711.49			214,711.49	49,739.00	4,294.00		54,033.00
434 Communications Improv	6/30/2011	6/30/2011	89,807.33			89,807.33	65,857.00	5,987.00		71,844.00
435 Power Distribution Imprc	6/30/2011	6/30/2011	108,274.04			108,274.04	23,815.00	2,165.00		25,980.00
436 Fiber Optic Network Syst	6/30/2011	6/30/2011	24,228.00			24,228.00	13,321.00	1,211.00		14,532.00
437 Ross Pump System Imprc	6/30/2011	6/30/2011	17,311.87			17,311.87	7,612.00	692.00		8,304.00
443 Davis Shotcreting Improv	6/30/2011	7/1/2011	857,538.24			857,538.24	314,435.00	28,585.00		343,020.00

Cost of Fixed AssetsAccumulated Depreciation

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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
160 - Improvements										
481 Improvements to Yates R	5/1/2012	5/1/2012	42,785.45			42,785.45	8,703.00	856.00		9,559.00
510 Davis Campus Laborator	11/30/2012	11/30/2012	8,453,584.87			8,453,584.87	2,700,449.00	281,786.00		2,982,235.00
527 Ross Gas Line	1/14/2013	1/14/2013	15,873.11			15,873.11	6,032.00	635.00		6,667.00
521 4850 Refuge Area	2/1/2013	2/1/2013	175,941.14			175,941.14	82,838.00	8,797.00		91,635.00
642 Ross Campus Shotcrete F	7/1/2015	7/1/2015	419,793.13			419,793.13	97,951.00	13,993.00		111,944.00
643 Ross Campus Laboratory	9/9/2015	9/9/2015	2,541,235.84			2,541,235.84	578,838.00	84,708.00		663,546.00
644 Ross Fire Suppression Sy	2/8/2016	2/8/2016	232,972.47			232,972.47	59,797.00	9,319.00		69,116.00
684 Thermal Insulation Davis	1/30/2017	1/30/2017	45,636.90			45,636.90	24,722.00	4,564.00		29,286.00
687 Surface Lab Bldg IMP	9/15/2017	9/15/2017	461,088.32			461,088.32	44,573.00	9,222.00		53,795.00
697 Davis C.Laboratory Upgr	1/1/2019	1/1/2019	295,191.44			295,191.44	34,440.00	9,840.00		44,280.00
721 Ross Shaft Rehab Steel P	3/31/2020	3/31/2020	17,817,058.55			17,817,058.55	801,767.00	356,341.00		1,158,108.00
			55,625,517.18	0.00	(6,589.30)	55,618,927.88	11,737,624.30	1,326,592.00	(6,589.29)	13,057,627.01
180 - Infrastructure										
294 Road Gravel WWTP East	7/1/2008	7/1/2008	48,846.60			48,846.60	17,094.17	1,221.00		18,315.17
296 Road Gravel Yates Hillsi	7/1/2008	7/1/2008	5,159.00			5,159.00	1,805.98	129.00		1,934.98
298 Sewer Line System	7/1/2008	7/1/2008	14,850.00			14,850.00	8,316.00	594.00		8,910.00
300 Water Line System (Histc	7/1/2008	7/1/2008	38,150.00			38,150.00	21,364.00	1,526.00		22,890.00
301 Water Line System (Othe	7/1/2008	7/1/2008	25,675.00			25,675.00	14,378.00	1,027.00		15,405.00
292 Concrete Cooling Basins	8/1/2008	8/1/2008	25,000.00			25,000.00	6,958.33	500.00		7,458.33
293 Concrete Vault System	8/1/2008	8/1/2008	25,000.00			25,000.00	6,958.33	500.00		7,458.33
290 Mill Reservoir	10/30/2008	10/30/2008	117,540.85			117,540.85	32,130.21	2,351.00		34,481.21
297 Sewer Line - Backwash t	11/1/2008	11/1/2008	155,156.08			155,156.08	84,815.50	6,206.00		91,021.50
291 Clarifier - WWTP	11/25/2008	11/25/2008	117,245.74		(117,245.74)	0.00	31,852.87	2,149.00	(34,001.87)	0.00
414 Grizzly Gulch Decant Pip	1/1/2011	1/1/2011	1,060,808.89			1,060,808.89	243,984.00	21,216.00		265,200.00
415 Ross Potable Water Line	1/1/2011	1/1/2011	24,810.00			24,810.00	11,408.00	992.00		12,400.00
655 Water Inflow Pipe System	1/3/2017	1/3/2017	241,210.06			241,210.06	53,064.00	9,648.00		62,712.00
665 Water Inflow Pipe Fusion	3/15/2017	3/15/2017	20,459.22			20,459.22	4,363.00	818.00		5,181.00
673 Ellison Gravel Road	6/12/2017	6/12/2017	25,400.25			25,400.25	6,456.00	1,270.00		7,726.00
674 Ellison Paved Road	6/12/2017	6/12/2017	13,550.65			13,550.65	1,723.00	339.00		2,062.00
710 Ross Top WaterLine Hou	9/24/2019	9/24/2019	44,326.35			44,326.35	4,876.00	1,773.00		6,649.00
			2,003,188.69	0.00	(117,245.74)	1,885,942.95	551,547.39	52,259.00	(34,001.87)	569,804.52
190 - Land										
304 Land - Donated by Home	4/14/2006	4/14/2006	1,511,000.00			1,511,000.00				0.00
305 Land - Closing Costs	1/31/2007	1/31/2007	13,435.39			13,435.39				0.00
306 Land - Phase I Enviromer	6/30/2008	6/30/2008	4,000.00			4,000.00				0.00

Cost of Fixed AssetsAccumulated Depreciation

000 - SD Science & Technology Authority

Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
190 - Land										
307 Land - Phase II Site Asse	12/23/2008	12/23/2008	5,602.65			5,602.65				0.00
603 Ellison Option	6/30/2015	6/30/2015	45,260.00			45,260.00				0.00
672 Ellison Property	6/12/2017	6/12/2017	234,838.10			234,838.10				0.00
752 SLHVC .648 Acres Prop	1/7/2022	1/7/2022	110,000.00			110,000.00				0.00
			1,924,136.14	0.00	0.00	1,924,136.14	0.00	0.00	0.00	0.00
200 - Other Non Dep										
309 Archive Materials - Gold	7/1/2008	7/1/2008	20,000.00			20,000.00				0.00
310 Archive Materials	7/1/2008	7/1/2008	50,000.00			50,000.00				0.00
			70,000.00	0.00	0.00	70,000.00	0.00	0.00	0.00	0.00
210 - Underground										
311 Underground - Closing C	1/31/2007	1/31/2007	90,686.99			90,686.99				0.00
312 Underground	1/31/2007	1/31/2007	10,658,650.00			10,658,650.00				0.00
			10,749,336.99	0.00	0.00	10,749,336.99	0.00	0.00	0.00	0.00
220 - Underground Improvements										
410 Improvements - Undergrc	6/30/2010	6/30/2010	1,210,109.78			1,210,109.78				0.00
444 Improvement Majorana E	10/31/2010	10/31/2010	159,204.14			159,204.14				0.00
446 Improvement Hazard Mit	5/31/2011	5/31/2011	60,774.93			60,774.93				0.00
442 Improvements Davis Exca	6/30/2011	7/1/2011	4,460,860.74			4,460,860.74				0.00
479 Improvement to UG Haze	6/30/2012	6/30/2012	69,223.43			69,223.43				0.00
530 Improvements-Haz.Mit.2	6/30/2013	6/30/2013	51,019.29			51,019.29				0.00
556 Hazard Mitigation Inprov	6/30/2014	6/30/2014	294,893.16			294,893.16				0.00
567 D.Campus Excav.Dehum	7/22/2014	7/22/2014	31,530.99			31,530.99				0.00
602 Hazard Mitigation 2015	6/30/2015	6/30/2015	163,874.47			163,874.47				0.00
641 Ross Campus Excavation	7/1/2015	7/1/2015	329,557.51			329,557.51				0.00
646 Hazard Mitigation Yates	6/21/2016	6/21/2016	187,570.00			187,570.00				0.00
664 Haz. Mit. Yates Tunnel	6/30/2017	6/30/2017	169,000.00			169,000.00				0.00
			7,187,618.44	0.00	0.00	7,187,618.44	0.00	0.00	0.00	0.00

Cost of Fixed AssetsAccumulated Depreciation**Summary**

000 - SD Science & Technology Authority

	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
110 - Automobiles	477,611.13	61,052.60	0.00	538,663.73	142,638.69	68,072.00	0.00	210,710.69
120 - Building	17,383,244.50	0.00	(123,513.33)	17,259,731.17	2,607,215.22	356,083.00	(50,982.55)	2,912,315.67
130 - Computer Hardware	381,499.81	0.00	(15,064.63)	366,435.18	269,766.04	36,777.00	(15,064.00)	291,479.04
140 - Equipment & Fixtures	10,199,778.00	57,751.56	(607,983.84)	9,649,545.72	6,193,702.27	469,218.00	(543,287.95)	6,119,632.32
150 - Furniture & Fixtures	67,297.83	0.00	0.00	67,297.83	60,561.26	4,486.00	0.00	65,047.26
160 - Improvements	55,625,517.18	0.00	(6,589.30)	55,618,927.88	11,737,624.30	1,326,592.00	(6,589.29)	13,057,627.01
180 - Infrastructure	2,003,188.69	0.00	(117,245.74)	1,885,942.95	551,547.39	52,259.00	(34,001.87)	569,804.52
190 - Land	1,924,136.14	0.00	0.00	1,924,136.14	0.00	0.00	0.00	0.00
200 - Other Non Dep	70,000.00	0.00	0.00	70,000.00	0.00	0.00	0.00	0.00
210 - Underground	10,749,336.99	0.00	0.00	10,749,336.99	0.00	0.00	0.00	0.00
220 - Underground Improvements	7,187,618.44	0.00	0.00	7,187,618.44	0.00	0.00	0.00	0.00
	<u>106,069,228.71</u>	<u>118,804.16</u>	<u>(870,396.84)</u>	<u>105,317,636.03</u>	<u>21,563,055.17</u>	<u>2,313,487.00</u>	<u>(649,925.66)</u>	<u>23,226,616.51</u>

Year to Date 7/1/2022 through 6/30/2023

Cost of Fixed Assets

Accumulated Depreciation

Combined	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
110 - Automobiles	477,611.13	61,052.60	0.00	538,663.73	142,638.69	68,072.00	0.00	210,710.69
120 - Building	17,383,244.50	0.00	(123,513.33)	17,259,731.17	2,607,215.22	356,083.00	(50,982.55)	2,912,315.67
130 - Computer Hardware	381,499.81	0.00	(15,064.63)	366,435.18	269,766.04	36,777.00	(15,064.00)	291,479.04
140 - Equipment & Fixtures	10,199,778.00	57,751.56	(607,983.84)	9,649,545.72	6,193,702.27	469,218.00	(543,287.95)	6,119,632.32
150 - Furniture & Fixtures	67,297.83	0.00	0.00	67,297.83	60,561.26	4,486.00	0.00	65,047.26
160 - Improvements	55,625,517.18	0.00	(6,589.30)	55,618,927.88	11,737,624.30	1,326,592.00	(6,589.29)	13,057,627.01
180 - Infrastructure	2,003,188.69	0.00	(117,245.74)	1,885,942.95	551,547.39	52,259.00	(34,001.87)	569,804.52
190 - Land	1,924,136.14	0.00	0.00	1,924,136.14	0.00	0.00	0.00	0.00
200 - Other Non Dep	70,000.00	0.00	0.00	70,000.00	0.00	0.00	0.00	0.00
210 - Underground	10,749,336.99	0.00	0.00	10,749,336.99	0.00	0.00	0.00	0.00
220 - Underground Improvements	7,187,618.44	0.00	0.00	7,187,618.44	0.00	0.00	0.00	0.00
	106,069,228.71	118,804.16	(870,396.84)	105,317,636.03	21,563,055.17	2,313,487.00	(649,925.66)	23,226,616.51

Cooperative Agreement Property

Year to Date Reconciliation - 7/1/2022 through 6/30/2023

June 30, 2023

Year to Date 7/1/2022 through 6/30/2023				Cost of Fixed Assets			Accumulated Depreciation				
000 - Cooperative Agreement Property											
Sys ID	Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
120 - Building											
34	I.Rand Compressor Build	5/18/2021	5/18/2021	73,384.00			73,384.00	6,625.00	6,115.00		12,740.00
67	Yates W.LineMeterBldg.	5/1/2022	5/1/2022	156,024.13			156,024.13	520.00	3,120.00		3,640.00
85	WTP Yardney Filtration I	2/1/2023	2/1/2023		254,122.06		254,122.06		2,118.00		2,118.00
91	Yates/Ross Hoist Bldg Ti	4/28/2023	4/28/2023		1,917,963.99		1,917,963.99		10,655.00		10,655.00
				229,408.13	2,172,086.05	0.00	2,401,494.18	7,145.00	22,008.00	0.00	29,153.00
130 - Computer Hardware											
58	HPE Server-Gen10Prolia	10/1/2021	10/1/2021	6,992.12			6,992.12	1,049.00	1,398.00		2,447.00
				6,992.12	0.00	0.00	6,992.12	1,049.00	1,398.00	0.00	2,447.00
140 - Equipment											
2	Chiller - Davis Campus	7/1/2020	7/1/2020	83,875.25			83,875.25	17,504.00	8,752.00		26,256.00
3	Chiller - Davis Campus	7/1/2020	7/1/2020	84,167.00			84,167.00	17,506.00	8,753.00		26,259.00
4	UTV Tracks	7/1/2020	7/1/2020	5,006.50			5,006.50	1,238.00	619.00		1,857.00
5	Bobcat Tool Cat	7/1/2020	7/1/2020	53,761.54			53,761.54	11,220.00	5,610.00		16,830.00
6	Kubota 4 Seat Cab	7/1/2020	7/1/2020	5,893.77			5,893.77	1,220.00	610.00		1,830.00
7	Western Sander W/Contr	7/1/2020	7/1/2020	8,841.84			8,841.84	1,846.00	923.00		2,769.00
8	AC Utility Truck	7/1/2020	7/1/2020	14,625.00			14,625.00	3,000.00	1,500.00		4,500.00
9	Refrigerated Sampler Iscc	7/1/2020	7/1/2020	5,713.96			5,713.96	1,182.00	591.00		1,773.00
10	Laser Flow System	7/1/2020	7/1/2020	17,335.24			17,335.24	3,586.00	1,793.00		5,379.00
11	3 Ton Locomotive Batter	7/1/2020	7/1/2020	7,200.00			7,200.00	2,880.00	1,440.00		4,320.00
26	Baker Hughes Submersib	7/1/2020	7/1/2020	37,434.00			37,434.00	37,434.00			37,434.00
27	Hydro Pressure Transduc	7/1/2020	7/1/2020	7,477.30			7,477.30	7,477.00			7,477.00
12	Radon Monitor AlphaGu	7/30/2020	7/30/2020	12,523.50			12,523.50	2,400.00	1,252.00		3,652.00
13	Radon Monitor Progeny	7/30/2020	7/30/2020	6,572.70			6,572.70	1,259.00	657.00		1,916.00
17	Laser Scanner	9/22/2020	9/22/2020	19,720.00			19,720.00	3,451.00	1,972.00		5,423.00
14	MineSAFE 36 Hour Refu	9/25/2020	9/25/2020	58,000.00			58,000.00	5,075.00	2,900.00		7,975.00
15	MineSAFE 36 Hour Refu	9/25/2020	9/25/2020	58,000.00			58,000.00	5,075.00	2,900.00		7,975.00
16	MineSAFE 36 Hour Refu	9/25/2020	9/25/2020	58,000.00			58,000.00	5,075.00	2,900.00		7,975.00
18	Cryo-Cycle II Cryostat 75	11/13/2020	11/13/2020	27,133.00			27,133.00	4,522.00	2,713.00		7,235.00
19	Mobius LN2 Recycle Coc	11/20/2020	11/20/2020	36,972.60			36,972.60	5,854.00	3,697.00		9,551.00
20	Mobius LN2 Recycle Coc	11/20/2020	11/20/2020	36,972.60			36,972.60	5,854.00	3,697.00		9,551.00
21	Mobius LN2 Recycle Coc	11/20/2020	11/20/2020	36,972.60			36,972.60	5,854.00	3,697.00		9,551.00

Cost of Fixed AssetsAccumulated Depreciation

000 - Cooperative Agreement Property

Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment										
24 Mobius LN2 Recycler Cc	12/11/2020	12/11/2020	36,972.60			36,972.60	5,854.00	3,697.00		9,551.00
25 Fusion Splicer w/CT50/B	12/16/2020	12/16/2020	10,360.00			10,360.00	1,036.00	691.00		1,727.00
29 Perkin Elmer Liq.Scintill.	2/23/2021	2/23/2021	35,190.00			35,190.00	4,692.00	3,519.00		8,211.00
28 Flood Barrier 72"X48" H	3/1/2021	3/1/2021	10,350.00			10,350.00	1,380.00	1,035.00		2,415.00
22 5 Ton Electric Chain Hoi	3/16/2021	3/16/2021	5,170.00			5,170.00	646.00	517.00		1,163.00
23 5 Ton Electric Chain Hoi	3/16/2021	3/16/2021	5,170.00			5,170.00	646.00	517.00		1,163.00
36 Harken Powerseat-ERT	5/10/2021	5/10/2021	8,554.87			8,554.87	499.00	428.00		927.00
37 Harken Powerseat-ERT	5/10/2021	5/10/2021	8,554.87			8,554.87	499.00	428.00		927.00
30 125HP L.Rand Compresso	5/18/2021	5/18/2021	61,755.00			61,755.00	9,557.00	8,822.00		18,379.00
31 125HP L.Rand Compresso	5/18/2021	5/18/2021	61,755.00			61,755.00	9,557.00	8,822.00		18,379.00
38 SterilKleen Lab Sink Cab	5/18/2021	5/18/2021	6,475.00			6,475.00	702.00	648.00		1,350.00
39 Sullair 185CFM Air Com	5/21/2021	5/21/2021	19,900.00			19,900.00	3,080.00	2,843.00		5,923.00
40 2014 Telescopic Fork TL	6/1/2021	6/1/2021	53,690.00			53,690.00	5,816.00	5,369.00		11,185.00
41 Desiccant Wheel Chiller	6/23/2021	6/23/2021	11,500.00			11,500.00	1,150.00	1,150.00		2,300.00
42 Chiller#3 - Davis Campu	6/23/2021	6/23/2021	43,300.00			43,300.00	4,330.00	4,330.00		8,660.00
60 Yates Hoist MG Set Refu	7/1/2021	7/1/2021	681,815.50			681,815.50	10,997.00	10,997.00		21,994.00
43 Pneumatic Pipe Cutter	7/20/2021	7/20/2021	12,733.63			12,733.63	1,167.00	1,273.00		2,440.00
44 2021 Bobcat S76 Skidste	8/17/2021	8/17/2021	47,608.20			47,608.20	3,967.00	4,761.00		8,728.00
45 Door LowerRossCrusherI	10/1/2021	10/1/2021	7,500.00			7,500.00	562.00	750.00		1,312.00
46 Door LowerRoss CrushB	10/1/2021	10/1/2021	7,500.00			7,500.00	562.00	750.00		1,312.00
47 Door Ross Headfr. NSkip	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
48 Door Upper Ross Crushe	10/1/2021	10/1/2021	10,000.00			10,000.00	750.00	1,000.00		1,750.00
49 Door Ross Hdfr.SE Cage	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
50 Door Ross Hdfr. SW Cag	10/1/2021	10/1/2021	10,000.00			10,000.00	750.00	1,000.00		1,750.00
51 Door YatesRampAccessI	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
52 Door Yates CrushBldg.E	10/1/2021	10/1/2021	10,000.00			10,000.00	750.00	1,000.00		1,750.00
53 Door YatesHdfr.N.SkipA	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
54 Door YatesHdfr. NE.Mai	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
55 Door YatesHdfr.SE.Cage	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
56 Door YatesHdfr. S.Cage	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
57 Door YatesCrushBldg.Int	10/1/2021	10/1/2021	9,000.00			9,000.00	675.00	900.00		1,575.00
62 Takeuchi Mini Excavator	12/7/2021	12/7/2021	56,400.00			56,400.00	3,290.00	5,640.00		8,930.00
64 AlphaGUARD DF2000 v	4/13/2022	4/13/2022	13,915.00			13,915.00	348.00	1,392.00		1,740.00
65 AlphaPM Radon Progeny	4/13/2022	4/13/2022	7,498.00			7,498.00	187.00	750.00		937.00
69 MaestroFlexMineRegul/F	5/1/2022	5/1/2022	15,387.50			15,387.50	256.00	1,539.00		1,795.00

Cost of Fixed AssetsAccumulated Depreciation

000 - Cooperative Agreement Property

Sys ID	Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment											
70	Maestro Flex Air Quality	5/1/2022	5/1/2022	5,125.00			5,125.00	85.00	512.00		597.00
72	Sulzer 2.7HP Submersibl	3/22/2022	7/27/2022	5,181.92			5,181.92		475.00		475.00
73	36 Cell 72VDC 600AH L	8/31/2022	8/31/2022		9,200.00		9,200.00		1,095.00		1,095.00
74	Battery Charger 480VAC	8/31/2022	8/31/2022		10,550.00		10,550.00		879.00		879.00
75	Mosfet 72V Locomotive	8/31/2022	8/31/2022		8,500.00		8,500.00		1,417.00		1,417.00
76	Stench Gas Electric 4 Re	1/23/2023	1/31/2023		13,090.00		13,090.00		545.00		545.00
77	Stench Gas Electric 4 Re	1/23/2023	1/31/2023		13,090.00		13,090.00		545.00		545.00
78	Stench Gas Electric 4 Re	1/23/2023	1/31/2023		13,090.00		13,090.00		545.00		545.00
79	Stench Gas Electric 4 Re	1/23/2023	1/31/2023		13,090.00		13,090.00		545.00		545.00
80	Stench Gas Electric 4 Re	1/23/2023	1/31/2023		13,090.00		13,090.00		545.00		545.00
81	Stench Gas Remote Activ	1/23/2023	1/31/2023		7,700.00		7,700.00		321.00		321.00
82	Stench Gas Remote Activ	1/23/2023	1/31/2023		7,700.00		7,700.00		321.00		321.00
83	LZ Project - TOC Water	1/19/2023	1/31/2023		28,268.00		28,268.00		1,178.00		1,178.00
84	LZ Project - Transmitter	1/19/2023	1/31/2023		5,266.00		5,266.00		219.00		219.00
87	2023 MS XP30 Pullback	3/3/2023	3/3/2023		5,500.00		5,500.00		183.00		183.00
86	Wireess Laser Shaft Alig	3/16/2023	3/16/2023		9,570.61		9,570.61		239.00		239.00
89	Locomotive Controller 72	3/23/2023	3/23/2023		8,950.00		8,950.00		448.00		448.00
88	Locomotive Controller 72	3/27/2023	3/27/2023		8,950.00		8,950.00		448.00		448.00
90	Western Tornado Sander	4/27/2023	4/27/2023		10,919.38		10,919.38		182.00		182.00
92	8'6" MVP Western Snow	5/5/2023	5/5/2023		8,582.00		8,582.00		143.00		143.00
93	Baker Hughes 8 Stage Pu	5/22/2023	5/22/2023		107,715.00		107,715.00		2,992.00		2,992.00
94	BakerHughes550HP/416	5/22/2023	5/22/2023		204,550.00		204,550.00		5,682.00		5,682.00
				2,023,560.49	507,370.99	0.00	2,530,931.48	229,027.00	157,303.00	0.00	386,330.00
180 - Infrastructure											
59	Ross Complex Water Lin	7/1/2021	7/1/2021	1,422,289.39			1,422,289.39	56,892.00	56,892.00		113,784.00
63	Gravity Flow System WT	3/1/2022	3/1/2022	432,467.50			432,467.50	2,883.00	8,649.00		11,532.00
66	Yates Complex Waterline	5/1/2022	5/1/2022	1,438,394.81			1,438,394.81	9,589.00	57,536.00		67,125.00
				3,293,151.70	0.00	0.00	3,293,151.70	69,364.00	123,077.00	0.00	192,441.00

Cost of Fixed AssetsAccumulated Depreciation

Summary

000 - Cooperative Agreement Property								
	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
120 - Building	229,408.13	2,172,086.05	0.00	2,401,494.18	7,145.00	22,008.00	0.00	29,153.00
130 - Computer Hardware	6,992.12	0.00	0.00	6,992.12	1,049.00	1,398.00	0.00	2,447.00
140 - Equipment	2,023,560.49	507,370.99	0.00	2,530,931.48	229,027.00	157,303.00	0.00	386,330.00
180 - Infrastructure	3,293,151.70	0.00	0.00	3,293,151.70	69,364.00	123,077.00	0.00	192,441.00
	5,553,112.44	2,679,457.04	0.00	8,232,569.48	306,585.00	303,786.00	0.00	610,371.00

Year to Date 7/1/2022 through 6/30/2023

Cost of Fixed Assets

Accumulated Depreciation

Combined	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
120 - Building	229,408.13	2,172,086.05	0.00	2,401,494.18	7,145.00	22,008.00	0.00	29,153.00
130 - Computer Hardware	6,992.12	0.00	0.00	6,992.12	1,049.00	1,398.00	0.00	2,447.00
140 - Equipment	2,023,560.49	507,370.99	0.00	2,530,931.48	229,027.00	157,303.00	0.00	386,330.00
180 - Infrastructure	3,293,151.70	0.00	0.00	3,293,151.70	69,364.00	123,077.00	0.00	192,441.00
	<u>5,553,112.44</u>	<u>2,679,457.04</u>	<u>0.00</u>	<u>8,232,569.48</u>	<u>306,585.00</u>	<u>303,786.00</u>	<u>0.00</u>	<u>610,371.00</u>

DOE Abandoned Property (Fermi)

Year to Date Reconciliation - 7/1/2022 through 6/30/2023

June 30, 2023

Year to Date 7/1/2022 through 6/30/2023

Cost of Fixed Assets

Accumulated Depreciation

000 - DOE Abandoned Property (Fermi)

Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment										
3 Figure 8 Fiber Optic Cabl	6/30/2020	6/30/2020	5,790.00			5,790.00	964.00	482.00		1,446.00
5 Davis Campus 4850VM I	6/30/2020	6/30/2020	9,777.97			9,777.97	2,444.00	1,222.00		3,666.00
6 Fusion Splicer W/Cleaver	6/30/2020	6/30/2020	8,446.90			8,446.90	2,090.00	1,045.00		3,135.00
7 Baldor 400HP Power Mo	6/30/2020	6/30/2020	5,793.34			5,793.34	880.00	440.00		1,320.00
9 Track-O-Lift Stair Clim	6/30/2020	6/30/2020	9,121.37			9,121.37	5,092.00	2,546.00		7,638.00
10 Titan Air Make-Up Unit	6/30/2020	6/30/2020	11,185.37			11,185.37	6,244.00	3,122.00		9,366.00
11 Titan Air Make-Up Unit	6/30/2020	6/30/2020	11,185.37			11,185.37	6,244.00	3,122.00		9,366.00
12 2016 John Deere 324K L	6/30/2020	6/30/2020	58,072.40			58,072.40	20,964.00	10,482.00		31,446.00
13 Orenco Septic System	6/30/2020	6/30/2020	8,193.69			8,193.69	7,866.00	327.00		8,193.00
14 Bosch Buderus Boiler - F	6/30/2020	6/30/2020	10,841.04			10,841.04	3,062.00	1,531.00		4,593.00
15 Bosch Buderus Boiler - F	6/30/2020	6/30/2020	10,841.04			10,841.04	3,062.00	1,531.00		4,593.00
16 Bosch Buderus Boiler - F	6/30/2020	6/30/2020	10,841.04			10,841.04	3,062.00	1,531.00		4,593.00
17 Draeger RZ 7000	6/30/2020	6/30/2020	5,097.51			5,097.51	1,390.00	695.00		2,085.00
23 Crane Test Weights	6/30/2020	6/30/2020	11,060.85			11,060.85	2,794.00	1,397.00		4,191.00
24 BullsEye Training Packa	6/30/2020	6/30/2020	15,807.00			15,807.00	10,538.00	5,269.00		15,807.00
25 Fletcher Feed Assembly	6/30/2020	6/30/2020	11,602.09			11,602.09	4,284.00	2,142.00		6,426.00
26 Locomotive Controller	6/30/2020	6/30/2020	6,035.71			6,035.71	2,228.00	1,114.00		3,342.00
27 Bobcat 2018 MT85 W/A	6/30/2020	6/30/2020	24,814.32			24,814.32	5,838.00	2,919.00		8,757.00
29 Kubota 2019 Diesel RTV	6/30/2020	6/30/2020	12,812.68			12,812.68	2,864.00	1,432.00		4,296.00
30 Kubota 2019 Diesel RTV	6/30/2020	6/30/2020	12,812.68		(12,812.68)	0.00	2,864.00	1,312.00	(4,176.00)	0.00
31 Kubota 2019 Diesel RTV	6/30/2020	6/30/2020	12,812.68			12,812.68	2,864.00	1,432.00		4,296.00
32 Battery Tray - 8T Locom	6/30/2020	6/30/2020	8,769.56			8,769.56	2,884.00	1,442.00		4,326.00
33 Battery Tray - 8T Locom	6/30/2020	6/30/2020	8,769.56			8,769.56	2,884.00	1,442.00		4,326.00
35 8 Ton Locomotive	11/1/2020	11/1/2020	50,571.43			50,571.43	14,047.00	8,428.00		22,475.00
36 8 Ton Locomotive	11/1/2020	11/1/2020	50,571.43			50,571.43	14,047.00	8,428.00		22,475.00
37 8 Ton Locomotive	11/1/2020	11/1/2020	50,571.43			50,571.43	14,047.00	8,428.00		22,475.00
38 96V Loco. Battery Charg	11/1/2020	11/1/2020	5,185.72			5,185.72	2,160.00	1,296.00		3,456.00
39 96V Loco. Battery Charg	11/1/2020	11/1/2020	5,185.72			5,185.72	2,160.00	1,296.00		3,456.00
40 96V Loco. Battery Charg	11/1/2020	11/1/2020	5,185.72			5,185.72	2,160.00	1,296.00		3,456.00
41 Electric Hoist 5 Ton - On	11/1/2020	11/1/2020	6,248.63			6,248.63	1,168.00	701.00		1,869.00
42 Porta Count Respirator Fi	11/1/2020	11/1/2020	12,008.40			12,008.40	2,265.00	1,359.00		3,624.00

Year to Date 7/1/2022 through 6/30/2023

Cost of Fixed Assets

Accumulated Depreciation

000 - DOE Abandoned Property (Fermi)										
Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment										
43 Flygt 3HP Handling Pum	11/1/2020	11/1/2020	5,007.74			5,007.74	927.00	556.00		1,483.00
45 Refuge Chamber 144 Per	11/1/2020	11/1/2020	178,624.50			178,624.50	33,704.00	20,222.00		53,926.00
44 Kubota 4 Seater Utility V	11/1/2020	11/2/2020	13,742.84			13,742.84	2,557.00	1,534.00		4,091.00
46 1-5/8 Rope	11/5/2020	11/5/2020	68,808.60			68,808.60	11,468.00	6,881.00		18,349.00
48 Flygt Subm.Pump 58HPv	5/1/2022	5/1/2022	21,364.20			21,364.20	411.00	2,465.00		2,876.00
49 Flygt Sewage Pump 15HI	5/1/2022	5/1/2022	16,786.00			16,786.00	280.00	1,679.00		1,959.00
			780,346.53	0.00	(12,812.68)	767,533.85	204,807.00	112,546.00	(4,176.00)	313,177.00

Cost of Fixed Assets

Accumulated Depreciation

Summary

000 - DOE Abandoned Property (Fermi)								
	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment	780,346.53	0.00	(12,812.68)	767,533.85	204,807.00	112,546.00	(4,176.00)	313,177.00
	780,346.53	0.00	(12,812.68)	767,533.85	204,807.00	112,546.00	(4,176.00)	313,177.00

Cost of Fixed Assets

Accumulated Depreciation

Combined	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2023	Retired	Ending
140 - Equipment	780,346.53	0.00	(12,812.68)	767,533.85	204,807.00	112,546.00	(4,176.00)	313,177.00
	780,346.53	0.00	(12,812.68)	767,533.85	204,807.00	112,546.00	(4,176.00)	313,177.00

BOARD MEMBER'S PER DIEM PAYMENTS FY2023

DATE	NAME	PURPOSE	AMOUNT
07/08/22	Peterson, Casey C.	7/5/22 In person discussion with Fermilab Director Lia Mermenga at RC office. 7/6/22 In person discussion with DOE OOS Director Asmeret Behre at SDSD office, Lead.	\$ 150.00
07/22/22	Lebrun, Patricia O.	7/21/22 Participated in CAC mtg via zoom.	\$ 75.00
07/22/22	Peterson, Casey C.	7/11/22 In person discussion with Mike H. and Jim Terwilliger, SD BFM Commission in Pierre. 7/22/22 In person discussion with Staci and Lapointe in Lead. SDSTA Telephonic Special Board Mtg.	\$ 150.00
08/05/22	Wheeler, Ronald W.	SDSTA Telephonic Special Board Mtg.	\$ 75.00
08/19/22	Peterson, Casey C.	Traveled to Lead and then Custer for a visit by Denny on Aug 18	\$ 75.00
09/16/22	Peterson, Casey C.	Discussions with Mike Headley, Tim Engel and Ron Wheeler re sale of xenon and prep for GOED presentation and tours.	\$ 75.00
09/16/22	Wheeler, Ronald W.	Discussions with Mike Headley, Tim Engel and Casey Peterson regarding sale of xenon.	\$ 75.00
09/30/22	Dykhous, Dana J.	9/22/22 SDSTA Quarterly Board Mtg in AM.	\$ 75.00
09/30/22	Fall, Christopher P	9/21/22 SURF Foundation social at Joy Center in PM. 9/22/22 SDSTA Quarterly Board Mtg in AM. 9/23/22 Video shoot for SURF Foundation website/promotion.	\$ 225.00
09/30/22	Lebrun, Patricia O.	9/21/22 SURF Foundation social at Joy Center in PM.	\$ 150.00
09/30/22	Peterson, Casey C.	9/22/22 SDSTA Quarterly Board Mtg in AM, U/G tour with State Senators, SURF Foundation Board Mtg in PM. 9/23/22 Onsite to greet Governor's Staff/u/g visit. 9/26/22 Study GASB No. 83 and help Terry address to external auditor. 9/29/22 Onsite for tour with Denny & Roundup Friends.	\$ 300.00
09/30/22	Wheeler, Ronald W.	9/22/22 SDSTA Quarterly Board Mtg in AM.	\$ 75.00
10/14/22	Peterson, Casey C.	10/7/22 Attend blessing ceremony of the Cangleska Wakan (Sacred Circle) Garden led by Oglala Lakota Richard Moves Camp at SURF.	\$ 75.00
10/28/22	Peterson, Casey C.	10/18/22 Met new SURF Foundation Director Michelle Kane and Foundation Board Chair Julie Olson in Sturgis.	\$ 75.00
11/25/22	Peterson, Casey C.	11/21/22 Teleconference with Mike and Jason Gloat regarding SD state funding for expansion.	\$ 75.00
12/09/22	Peterson, Casey C.	Two teleconferences with Mike and Atty Jason Glodt regarding SD state funding for expansion.	\$ 150.00
12/23/22	Fall, Christopher P	12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 75.00
12/23/22	Lebrun, Patricia O.	12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 75.00
12/23/22	Peterson, Casey C.	Wk of 12/12/22 Further discussions with Mike and Atty Jason Glodt regarding SD state funding for expansion. 12/14/22 Meeting with Tim Engel re insurance contracts. 12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 225.00
12/23/22	Wheeler, Ronald W.	12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 75.00
01/06/23	Peterson, Casey C.	12/19/22 Participated in SD Legislator u/g tour at SURF. 1/3/23 Met with Mike Dietrich from Senate Appropriations Cmte. Also attended SD Strong event for West River legislators and discussed funding for expansion.	\$ 150.00
02/03/23	Peterson, Casey C.	1/16-1/18 Provided testimony for 4850L expnsion funding during Legislative Session. 1/31-2/3/23 Discussed 4850L expnsion funding at various meetings during Legislative Session.	\$ 525.00
02/17/23	Peterson, Casey C.	2/15-2/16/23 Traveled to Pierre to discuss 4850L expansion funding at various mtgs during Legislative Session.	\$ 150.00

**BOARD MEMBER'S PER DIEM PAYMENTS
FY2023**

DATE	NAME	PURPOSE	AMOUNT
03/03/23	Peterson, Casey C.	2/21-2/24, 2/28-3/2/2023 Traveled to Pierre to discuss 4850L expansion funding at various mtgs during Legislative Session.	\$ 525.00
03/17/23	Aprahamian, Ani	3/16/23 Participate in quarterly SDSTA Board Mtg via Zoom.	\$ 75.00
03/17/23	Fall, Christopher P	3/16/23 Attend quarterly SDSTA Board Mtg in person.	\$ 75.00
03/17/23	Lebrun, Patricia O.	3/16/23 Attend quarterly SDSTA Board Mtg via Zoom	\$ 75.00
03/17/23	Peterson, Casey C.	3/14/23 Teleconference with NewsCenter 1 with Mike and Constance. 3/15/23 Teleconference with Sen. Thune's WR Director Qusi Al-Haj and Mike. 3/16/23 Attend quarterly SDSTA Board Mtg in person.	\$ 225.00
03/17/23	Wheeler, Ronald W.	3/16/23 Participate in quarterly SDSTA Board Mtg via Zoom.	\$ 75.00
03/31/23	Peterson, Casey C.	3/16/23 One-on-one discussions with SDSTA board members regarding SDSTA business.	\$ 150.00
04/28/23	Peterson, Casey C.	4/24/23 Meet with Director Headley to discuss SDSTA business.	\$ 75.00
05/12/23	Peterson, Casey C.	5/11/23 Teleconference with Mike Procario re SURF expansion plans.	\$ 75.00
06/09/23	Aprahamian, Ani	6/9/23 Telephonic Special board meeting.	\$ 75.00
06/09/23	Lebrun, Patricia O.	6/9/23 Telephonic Special board meeting.	\$ 75.00
06/09/23	Peterson, Casey C.	5/31/23 meet with Mike and TME at SURF.	\$ 75.00
06/09/23	Wheeler, Ronald W.	6/9/23 Telephonic Special board meeting.	\$ 75.00
06/23/23	Aprahamian, Ani	6/22/23 Annual Board meeting via Zoom.	\$ 75.00
06/23/23	Dykhouse, Dana J.	6/22/23 Annual Board meeting via Zoom.	\$ 75.00
06/23/23	Lebrun, Patricia O.	6/22/23 Annual board meeting in person in Lead, SD.	\$ 75.00
06/23/23	Peterson, Casey C.	6/22/23 Annual board meeting in person in Lead, SD.	\$ 75.00
06/23/23	Wheeler, Ronald W.	6/22/23 Annual Board meeting via Zoom.	\$ 75.00
			\$5,175.00
ANI APRAHAMIAN			
03/17/23	Aprahamian, Ani	3/16/23 Participate in quarterly SDSTA Board Mtg via Zoom.	\$ 75.00
06/09/23	Aprahamian, Ani	6/9/23 Telephonic Special board meeting.	\$ 75.00
06/23/23	Aprahamian, Ani	6/22/23 Annual Board meeting via Zoom.	\$ 75.00
			\$ 225.00
DANA DYKHOUSE			
09/30/22	Dykhouse, Dana J.	9/22/22 SDSTA Quarterly Board Mtg in AM.	\$ 75.00
06/23/23	Dykhouse, Dana J.	6/22/23 Annual Board meeting via Zoom.	\$ 75.00
			\$ 150.00
CHRISTOPHER FALL			
09/30/22	Fall, Christopher P	9/21/22 SURF Foundation social at Joy Center in PM. 9/22/22 SDSTA Quarterly Board Mtg in AM. 9/23/22 Video shoot for SURF Foundation website/promotion.	\$ 225.00
12/23/22	Fall, Christopher P	12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 75.00
03/17/23	Fall, Christopher P	3/16/23 Attend quarterly SDSTA Board Mtg in person.	\$ 75.00
			\$ 375.00
PATRICIA LEBRUN			
07/22/22	Lebrun, Patricia O.	7/21/22 Participated in CAC mtg via Zoom.	\$ 75.00
09/30/22	Lebrun, Patricia O.	9/21/22 SURF Foundation social at Joy Center in PM. 9/22/22 SDSTA Quarterly Board Mtg in AM.	\$ 150.00
12/23/22	Lebrun, Patricia O.	12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 75.00
03/17/23	Lebrun, Patricia O.	3/16/23 Attend quarterly SDSTA Board Mtg via Zoom.	\$ 75.00
06/09/23	Lebrun, Patricia O.	6/9/23 Telephonic Special board meeting.	\$ 75.00
06/23/23	Lebrun, Patricia O.	6/22/23 Annual board meeting in person in Lead, SD.	\$ 75.00

**BOARD MEMBER'S PER DIEM PAYMENTS
FY2023**

DATE	NAME	PURPOSE	AMOUNT
			<u>\$ 525.00</u>
CASEY PETERSON			
07/08/22	Peterson, Casey C.	7/5/22 In person discussion with Fermilab Director Lia Mermenga at RC office. 7/6/22 In person discussion with DOE OOS Director Asmeret Behre at SDSD office, Lead.	\$ 150.00
07/22/22	Peterson, Casey C.	7/11/22 In person discussion with Mike H. and Jim Terwilliger, SD BFM Commission in Pierre. 7/22/22 In person discussion with Staci and Lapointe in Lead. SDSTA Telephonic Special Board Mtg.	\$ 150.00
08/19/22	Peterson, Casey C.	Traveled to Lead and then Custer for a visit by Denny on Aug 18	\$ 75.00
09/16/22	Peterson, Casey C.	Discussions with Mike Headley, Tim Engel and Ron Wheeler re sale of xenon and prep for GOED presentation and tours.	\$ 75.00
09/30/22	Peterson, Casey C.	9/22/22 SDSTA Quarterly Board Mtg in AM, U/G tour with State Senators, SURF Foundation Board Mtg in PM. 9/23/22 Onsite to greet Governor's Staff/u/g visit. 9/26/22 Study GASB No. 83 and help Terry address to external auditor. 9/29/22 Onsite for tour with Denny & Roundup Friends.	\$ 300.00
10/14/22	Peterson, Casey C.	10/7/22 Attend blessing ceremony of the Cangleska Wakan (Sacred Circle) Garden led by Oglala Lakota Richard Moves Camp at SURF.	\$ 75.00
10/28/22	Peterson, Casey C.	10/18/22 Met new SURF Foundation Director Michelle Kane and Foundation Board Chair Julie Olson in Sturgis.	\$ 75.00
11/25/22	Peterson, Casey C.	11/21/22 Teleconference with Mike and Jason Gloat regarding SD state funding for expansion.	\$ 75.00
12/09/22	Peterson, Casey C.	Two teleconferences with Mike and Atty Jason Glodt regarding SD state funding for expansion.	\$ 150.00
12/23/22	Peterson, Casey C.	Wk of 12/12/22 Further discussions with Mike and Atty Jason Glodt regarding SD state funding for expansion. 12/14/22 Meeting with Tim Engel re insurance contracts. 12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 225.00
01/06/23	Peterson, Casey C.	12/19/22 Participated in SD Legislator u/g tour at SURF. 1/3/23 Met with Mike Dietrich from Senate Appropriations Cmte. Also attended SD Strong event for West River legislators and discussed funding for expansion.	\$ 150.00
02/03/23	Peterson, Casey C.	1/16-1/18 Provided testimony for 4850L expnsion funding during Legislative Session. 1/31-2/3/23 Discussed 4850L expnsion funding at various meetings during Legislative Session.	\$ 525.00
02/17/23	Peterson, Casey C.	2/15-2/16/23 Traveled to Pierre to discuss 4850L expansion funding at various mtgs during Legislative Session.	\$ 150.00
03/03/23	Peterson, Casey C.	2/21-2/24, 2/28-3/2/2023 Traveled to Pierre to discuss 4850L expansion funding at various mtgs during Legislative Session.	\$ 525.00
03/17/23	Peterson, Casey C.	3/14/23 Teleconference with NewsCenter 1 with Mike and Constance. 3/15/23 Teleconference with Sen. Thune's WR Director Qusi Al-Haj and Mike. 3/16/23 Attend quarterly SDSTA Board Mtg in person.	\$ 225.00
03/31/23	Peterson, Casey C.	3/16/23 One-on-one discussions with SDSTA board members regarding SDSTA	\$ 150.00

**BOARD MEMBER'S PER DIEM PAYMENTS
FY2023**

DATE	NAME	PURPOSE	AMOUNT
04/28/23	Peterson, Casey C.	4/24/23 Meet with Director Headley to discuss SDSTA business.	\$ 75.00
05/12/23	Peterson, Casey C.	5/11/23 Teleconference with Mike Procario re SURF expansion plans.	\$ 75.00
06/09/23	Peterson, Casey C.	5/31/23 Meet with Mike and TME at SURF.	\$ 75.00
06/23/23	Peterson, Casey C.	6/22/23 Annual board meeting in person in Lead, SD.	\$ 75.00
			\$ 3,375.00
RONALD WHEELER			
08/05/22	Wheeler, Ronald W.	SDSTA Telephonic Special Board Mtg.	\$ 75.00
09/16/22	Wheeler, Ronald W.	Discussions with Mike Headley, Tim Engel and Casey Peterson regarding sale of xenon.	\$ 75.00
09/30/22	Wheeler, Ronald W.	9/22/22 SDSTA Quarterly Board Mtg in AM.	\$ 75.00
12/23/22	Wheeler, Ronald W.	12/15/22 SDSTA & SURF Foundation Board Mtgs via Zoom.	\$ 75.00
03/17/23	Wheeler, Ronald W.	3/16/23 Participate in quarterly SDSTA Board Mtg via Zoom.	\$ 75.00
06/09/23	Wheeler, Ronald W.	6/9/23 Telephonic Special board meeting.	\$ 75.00
06/23/23	Wheeler, Ronald W.	6/22/23 Annual Board meeting via Zoom.	\$ 75.00
			\$ 525.00

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Executive Director's Report—Mr. Mike Headley

The Executive Director's Report includes the following:

- 10A. Declaration of surplus (2)—miscellaneous end of life equipment.
- 10B. SDSTA quarterly update—*informational*.
- 10C. Science update—SDSTA Science Director Dr. Jaret Heise, *informational*.
- 10D. LBNF/DUNE update—LBNF FSCF-BSI Project Manager, Mr. Joshua Willhite, *informational*.

See recommended motion below.

Recommended Action:

Motion to accept the Executive Director's Report as presented.

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Underground Research Facility

South Dakota Science and Technology Authority

630 E. Summit St. Lead, SD 57754

DECLARATION OF SURPLUS PROPERTY

The South Dakota Science and Technology Authority (SDSTA) owns the listed items below that have reached end-of-life and it is not cost effective to repair them nor do they have monetary value to be sold. Therefore, this equipment will be scrapped:

- Spendrup 350HP Fan at Oro Hondo – Asset # FN-RLS01-02
- Ross Boiler – Asset # BU-RSS02-02
- Ross Air Tanks – Asset # TA-RSS00-01
- Yates Work Platform (Skip Bonnet) – Asset # WD-XXS99-01
- 500KVA Transformer 3 Phase at Oro Hondo – Asset # 140-368-323
- Benshaw Switch Disconnect 125AMP CFMV – Asset # 140-370-325
- (2) A Bradley Powerflex AC Drive 3 Phase 100HP – Asset # 140-377-332
- Mining Controls Portable Skid Transformer – Asset # 140-581-581
- Backup Server HP DL380 GEN9 Remote – Asset # IT-YSS12-02
- Toshiba Server (Application) – Asset # IT-YSS12-44
- Hitachi CPWU9410 Projector – Asset # IT-YSS12-60
- (3) Baldor 75HP Motor, 460V at 86a
- (7) Reliance 75HP motor, 460V at 86A
- (9) Skip Bale/Box from Foundry

Having no further use for this property, I hereby declare the above listed items to be Surplus Property.

Dated at Lead, South Dakota this 21st day of June 2023.


Mike Headley Jun 21, 2023 10:10 MDT

Mike Headley
SDSTA Executive Director

Declaration of Surplus Property - Inventory

Final Audit Report

2023-06-21

Created:	2023-06-21
By:	Benjamin Brack (bbrack@sanfordlab.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAApXlcaSUbC2_SjB8iDXDCudkvWtVEJ3r

"Declaration of Surplus Property - Inventory" History



Document created by Benjamin Brack (bbrack@sanfordlab.org)

2023-06-21 - 4:08:34 PM GMT



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Email viewed by Mike Headley (mheadley@sanfordlab.org)

2023-06-21 - 4:10:50 PM GMT



Document e-signed by Mike Headley (mheadley@sanfordlab.org)

Signature Date: 2023-06-21 - 4:10:58 PM GMT - Time Source: server



Agreement completed.

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Adobe Acrobat Sign



Underground Research Facility

South Dakota Science and Technology Authority

630 E. Summit St. Lead, SD 57754

DECLARATION OF SURPLUS PROPERTY

The South Dakota Science and Technology Authority (SDSTA) owns the listed items below that have reached end-of-life and it is not cost effective to repair them nor do they have monetary value to be sold. Therefore, this equipment will be scrapped:

- Battery for Trojan Locomotive 3.25T – Asset # BT-XXU99-03
- Yates Dust Collector – Asset # DC-YSS00-01
- Ellison Hoist Bldg. – Asset # BU-ELS00-02
- (9) Line Power Portable Skid – from Inventory of Supplies List #2
- (2) Bundy – SN 701-010 and 7-05-003 – from Inventory of Supplies List #2
- (2) VCT West Model JOC4N1Z2Z2Z1 – SN WA553A and WA553B – List #2
- Intermountain Electronics Skid 13800V – from Inventory of Supplies List #2
- (3) GE Refurbished Transformers – from Inventory of Supplies List #3

Having no further use for this property, I hereby declare the above listed items to be Surplus Property.

Dated at Lead, South Dakota this 21st day of June 2023.


Mike Headley (Jun 21, 2023 12:51 MDT)

Mike Headley
SDSTA Executive Director

Declaration of Surplus Property - List #2

Final Audit Report

2023-06-21

Created:	2023-06-21
By:	Benjamin Brack (bbrack@sanfordlab.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAAEycyk_xYluMX_BORYsiHByPgr6JERX

"Declaration of Surplus Property - List #2" History

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-  Document emailed to Mike Headley (mheadley@sanfordlab.org) for signature
2023-06-21 - 5:11:56 PM GMT
-  Email viewed by Mike Headley (mheadley@sanfordlab.org)
2023-06-21 - 6:51:19 PM GMT
-  Document e-signed by Mike Headley (mheadley@sanfordlab.org)
Signature Date: 2023-06-21 - 6:51:27 PM GMT - Time Source: server
-  Agreement completed.
2023-06-21 - 6:51:27 PM GMT

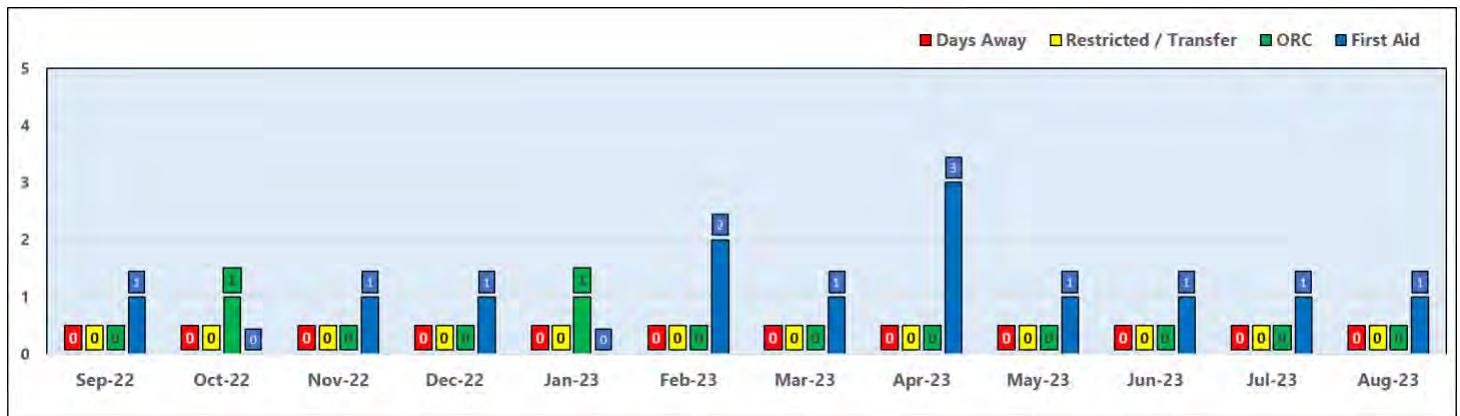
June – August 2023 Progress Report
Submitted September 13, 2023

Submitted to:
South Dakota Science and Technology Authority Board of Directors

Mike Headley
SDSTA Executive Director
Sanford Underground Research Facility Laboratory Director

Environment, Safety and Health (ESH) Status

Health and Safety Status



SDSTA Rolling 12 Months – Days Away Restricted or Transferred Rate 0.00

June 2023 thru August 2023: Recordable Cases

- No events to report.

June 2023 thru August 2023: First Aid Cases

- 6/26/23: Employee skin irritation; evaluated by Occupational Health Nurse and hydrocortisone cream applied.
- 7/15/23: Moth stuck in employee's ear; moth extracted by offsite medical provider.
- 8/29/23: Employee knee injury; ibuprofen provided.

ESH Support

- New staff started in August:
 - Yates Security Guard – Jeremiah Fredericksen
 - Emergency Response Team (ERT) Member – Dave Cummings
 - ERT Member – Heath Brown

Work Accomplishments

- Approved ESH Manual Standards:
 - Below the Hook Lifting Devices and Slings/Rigging Hardware
 - Bloodborne Pathogens
 - Cranes and Hoists
 - Cryogenic Systems
 - Disablement or Impairment of Critical Safety Equipment
 - Facility Access
 - Hot Work
 - Oxygen Deficiency
 - Powered Industrial Truck
 - Safeguard and Security
- ESH completed the following incident investigations:
 - Oro Hondo capacitor malfunction (6/6)
 - Ross Hoist PLC fault (6/7)
- ESH hosted the 2nd quarter Office of Risk Management (ORM) assessment onsite. SDSTA's Mine Safety and Health Administration (MSHA) consultant participated in this visit; hazards were identified and corrected. ORM's final report was received.
- Supported the SDSTA Operations team with the Oro Hondo Fan outage, including air monitoring, communications and the development of a trigger action response plan for underground ventilation.
- ESH completed annual respirator fit testing for half face respirators.
- ESH participated in the LZ collaboration meetings:

- Held discussions regarding the hazard assessment for the BF3 Detector that will be utilized by LZ for establishing neutron background
 - Guided LZ Safety Officer underground to observe the progress made
- Members of the SDSTA ESH and Operations teams provided an emergency management presentation to Fermi Research Alliance (FRA) to ensure alignment on this topic for future work at SURF.
- Completed and submitted the Historic Preservation Annual Report to the DOE and the South Dakota State Historic Preservation Office as required.
- Nine members of ERT volunteered in the local communities to help support the Sturgis Motorcycle Rally and to stay proficient with emergency skills.
- Industrial Hygiene conducted respirable dust, silica and metals air sampling on the 4100L – samplings were found to be below all Occupational Safety and Health Administration (OSHA) action levels and OSHA Permissible Exposure Limits (PEL) for the substances sampled.
- SDSTA completed an underground exercise/drill. The objectives of the drill are as follows:
 - Verify the timeframe for evacuating personnel with 100% accountability utilizing the MineStar personnel tracking system that was implemented in some areas in conjunction with the brass boards and the Trip Action Plan (TAP)
 - Stench was dropped at 9:00 am; all personnel were on the surface and accounted for at 9:50 am
 - Validate the new stench system operations including the timeframes for the stench to be received at various levels
 - Observers were underground in various locations to validate the time it took for the stench to be received; these times have improved with the implementation of the new system
 - Practice Command Staff roles in the Emergency Operation Center
 - This practice occurs during each drill/exercise to enhance roles and responsibilities in the command center
 - Ready the Yates Shaft for potential use as the secondary egress
 - The Yates Shaft was ready for use in 30 minutes
- New brass boards at the Ross Complex have been implemented.
- ERT participated in life flight training in the Yates administrative parking lot.

Upcoming Activities/Trainings

- Quarter 3 ORM Compliance Visit – September
- Environment, Safety, and Health Advisory Committee Review – November

Wellness Initiatives

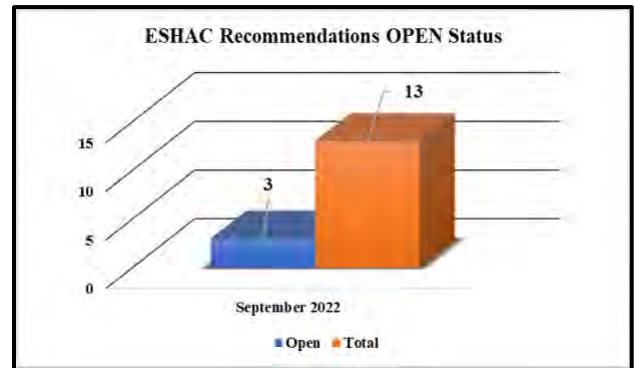
- June – 6-week walking challenge
- July – “Fruit in your Water Fridays”
- August – Onsite mobile blood drive

Environmental Support

- All monthly Discharge Monitoring Reports as required by the National Pollutant Discharge Elimination System (NPDES) Permit were submitted to the South Dakota Department of Agriculture and Natural Resources (SD DANR). All water discharge was within permit limits. Total water discharged was 192,085,725 gallons.
- GEI Consultants completed annual aquatic biological monitoring on Whitewood Creek and Gold Run Creek as required by the NPDES Permit.
- Annual Environmental Protection Agency Quality Assurance/Quality Control proficiency testing for all labs performing analysis for SDSTA was completed and submitted to the SD DANR and the Environmental Protection Agency.
- Mid Dakota Vegetation was on site to complete noxious weed abatement spraying throughout the site.
- The Environmental Manager and Coordinator completed historic preservation training as required by the Programmatic Agreement.
- The Historic Preservation Annual Report was submitted to the Department of Energy (DOE) and the South Dakota State Historic Preservation Office as required by the Programmatic Agreement.

- The Environmental Coordinator attended 2023 Chemical and Industry Safety & Compliance Workshop hosted by SD DANR with speakers from Department of Agriculture and Natural Resources, United States Environmental Protection Agency, OSHA and Department of Homeland Security.
- The Objective Evaluation Report for IMS 2023 Significant Environmental Objective #1 was completed. The conclusion was that no additional monitoring or controls are needed to identify a leak in the pipeline from the Grizzly Gulch Tailings Impoundment to the Wastewater Treatment Plant.
- Inspections required by the Stormwater Pollution Prevention Plan and the Spill Prevention Control and Countermeasure Plan were completed. Corrective actions were initiated where identified.

Third Party Review Recommendations Status



Surface and Underground Operations Status

Yates Shaft

Work Accomplishments

- Yates Shaft was utilized as a secondary egress for an excavation contractor; all went safely and efficiently.
- Yates Shaft crew made it to the area of the shaft with extensive timber degradation at set 194 between the 1100L and 1700L.
- SDSTA employees have been working overtime to cut the new shaft timber per Homestake designs and specifications, which has resulted in a significant cost savings compared to utilizing a third-party vendor.

Upcoming Activities

- Re-evaluate limited access to the 1700L.
- Focus on Top Down Maintenance (TDM) in skip compartments from the 1700L – 2600L, specifically structural timber.
- Continue TDM to reach the loose rocks below 4100L.

Ross Shaft

Work Accomplishments

- Ross Shaft crews have safely slung over 259 separate loads to support the Long-Baseline Neutrino Facility/Deep Underground Neutrino Experiment (LBNF/DUNE).
- TPI guide moisture inspection was completed – seven guides were identified, and all changed out.
- Ross cage hoist speeds increased to 1,500 fpm for materials only.
- Waste Isolation Pilot Plant (WIPP) representatives were hosted at SURF to discuss the upgrades completed at the Ross. WIPP is considering something similar with their hoists.

Upcoming Activities

- Support for Ross brow excavation activities.
- Plan for remaining saddle bolt torquing.

Hoist Maintenance

Work Accomplishments

- Real-time displays were installed to monitor bearing temperatures on the Yates Cage Hoists.
- A new rope oiling system was purchased and used to oil and clean hoist ropes.
- Ross cage hoist was commissioned for higher speeds but remains at 500 fpm down and 1,000 fpm up for personnel.
- Ross cage hoist speeds increased to 1,500 fpm for materials only.

Upcoming Activities

- Ross skip rope cuts.
- Yates cage rope cuts.
- Bi-annual hoist rope non-destructive testing will be performed (NDT).

Underground Hazard Mitigation

Work Accomplishments

- Installed multiple ventilation stoppings on the 2000L and 2150L.
- Began removing legacy pipe and fixing track on the 4550L.
- Completed installing MineStar hardware at the Davis Campus on the 4850L.
- Mucked out #2 Air Raise on the 1700L.
- Installed MineStar hardware on the 1700L between the Ross/Yates Shafts and 7L shops.

Upcoming Activities

- Complete MineStar system commissioning on the 4850L in the East and South Drifts.
- Complete MineStar system commissioning in the 1700L transportation corridor.
- Complete installation of ventilation stoppings on the 2000L and 2150L.
- Continue removing legacy pipe and fixing track on the 4550L.

Surface Operations and Utilities (SOU) Support

Facility Maintenance (Surface and 4850L) and Mobile Equipment

Work Accomplishments

- Quarterly preventive maintenance (PMs) were completed on HVAC and plumbing systems.
- The Administration parking lot was re-sealed and painted.
- Sanford Lab Homestake Visitor Center storage shed was installed.
- Annual weed control was completed.
- Worked with contractor to fill a void in Ellison Road.

Upcoming Activities

- Replace fencing near Yates Gate.

Electrical / Cyber Infrastructure / Dewatering

Work Accomplishments

- Worked with Black Hills Energy to upgrade power on Rope House Road to 480 VAC.
- Worked with Howden to expedite new Oro Hondo Fan startup.
- Met with fiber providers to develop plan for moving admin fiber underground.
- Extended 480V feeder for 5000L skip loader system.

Upcoming Activities

- Modify incoming utility feeds on 4850L Ross Station to prepare for brow excavation.

Wastewater Treatment Plant (WWTP)

Work Accomplishments

- Ramped up to 1,000 gpm from Grizzly Gulch to help with increased dam level due to heavy rains.
- David Johnson replaced Ken Noren as Superintendent after Ken's retirement.
- Media for 2nd phase of Yardney media replacement is on site.
- Deep well pump reliability improved after latest programming changes.
- Continue to support Infrastructure Improvement Project for RBC replacement.
- Completed neutralization of four barrels of acid for the MAJORANA DEMONSTRATOR experiment.

Upcoming Activities

- Working to fill open Operator position.

Operations Integration and Maintenance Planning

Work Accomplishments

- Completed bin location on all stock parts located in the ROC Warehouse.
- Assisted in gathering information for upcoming HVAC contract renewal.
- Completed update to rigging inspections in ManagerPlus.
- Worked with IT and ManagerPlus support to obtain a monthly backup of the ManagerPlus database.
- ManagerPlus merged with Eptura to create the "new" ManagerPlus by Eptura.

Upcoming Activities

- Continuing to work with Accounting and Finance Office to identify existing and new assets in ManagerPlus that are being depreciated.
- Print asset barcodes for existing assets.
- Make improvements to work orders with the goal of fine tuning scheduled vs. unscheduled percentages.

Engineering Support

Work Accomplishments

- Yates Shaft Rehabilitation: Updated cost analysis and schedule developed to include 40% contingency, escalation, 6-year duration assuming Design/Build contracting strategy. These costs were programmed over the 6-year schedule to include DOE review milestones to better inform fund sourcing activities.
- SURF 4850L Laboratory Expansion: Awarded a contract to TMI to perform the design for the Phase 1 excavations (by-pass drift/waste rock handling underground). Held the 30% design review workshop.
- Ross Shaft/Complex Material Handling System Assessment: SDSTA and TMI conducted a walkthrough of the entire rock handling system (from the Ross ore pass/skip loading at the 5000L through the Open Cut conveyor dump) in August as part of possible turnover negotiations.
- 4850L Refuge Chamber Chiller HVAC Assessment: Reviewed the A-E firm's chiller design analysis report on options for moving away from an open-loop (high water consumption) HVAC system. Decision was made to not pursue any HVAC upgrades and operate the system as is.
- RBC Replacement at WWTP: Contract was awarded for the replacement of the Rotating Biological Contactors to RCS Construction. The project will install new biological systems technology to replace antiquated treatment technology.
- Geographic Information Systems (GIS): Hosted a seminar with Avid4 Engineering to demonstrate the 1700L Underground GIS application. This wrapped up this first phase of Underground GIS development.
- WWTP System PLC Recapitalization (IIP FY27): Performed three field walkthroughs of the WWTP and developed a Piping & Instrumentation Diagram (P&ID) of its processes.
- Yates Hoist Building Re-roofing Project: The contract for the roof replacement was awarded. Hosted project kickoff meeting with construction scheduled for Summer 2024.
- Utilized the arc flash model to track down defective circuit breakers that were affected by a manufacturer's recall notice. Completed paperwork and notified manufacturer of the affected breakers.
- Scanned 4850L 17 Ledge drifts for lab expansion muck storage and blast door measurements.

- Replace Power Cable East Switchyard: The project is approximately 50% complete with the completion of duct bank installation by the end of August.
- Oro Hondo Backup Fan: Fan commissioned to 775 rpm and supplied backup ventilation while the AD fan was down. Contractor remobilized and working on motor building with fan commissioning to follow.
- Sacred Circle Garden: Contractor mobilized and work began in July. Retaining walls on north and south boundaries are complete. Road and medicine wheel site have been rough graded. Concrete color testing and site utility installation in process. Project completion planned by late October.

Quality Assurance / Quality Control Status

- Change Control Request (CCR) Submittals and Approval/Pending (2/21/23 - 5/30/23).
 - Initiated CCRs – 65
 - Approved CCRs – 62
 - Pending CCRs – 03
 - SDSTA Internal Documents Converted to IMS Format as of 5/30/23 – total of 375

CCR#	Title	Status	Approval Date
696	SPCC Plan	Approved	4/4/2023
697	SPCC Maps Updates	Approved	2/21/2023
698	Tier II Reporting Map	Approved	2/21/2023
699	Yates Emergency Egress during Maintenance	Approved	2/21/2023
700	Update Substantial Completion Certificate Form	Approved	2/23/2023
701	Update SOP 0013	Approved	2/27/2023
702	Admin Services Docs	Approved	2/27/2023
703	New IT Doc	Approved	3/3/2023
704	SPCC Forms Updates	Approved	3/2/2023
705	Admin Services Doc Archive	Approved	3/8/2023
706	Active Directory Change Form Update	Approved	3/10/2023
707	Updates to Document Change Control Standard	Approved	3/21/2023
708	Update to IMSM-SDSTA Work Instruction Template	Approved	3/21/2023
709	uniPoint Update to IMSM Docs	Approved	4/11/2023
710	Updates to WPC and WI	Approved	3/21/2023
711	UO Maps Revisions	Approved	3/16/2023
712	Project Slide Update	Approved	3/20/2023
713	WWTP SOPs Update	Approved	3/20/2023
714	Update to SDSTA PY & PP Manual	Approved	3/23/2023
715	SOP 159	Approved	3/22/2023
716	Admin Services Docs	Approved	3/21/2023
717	SOU Docs	Approved	3/21/2023
718	Job Hazard Analysis Form Update	Approved	3/21/2023
719	Project Slide Update	Approved	3-22-230
720	New IT Work Instruction	Approved	4/4/2023
721	Oxygen Deficiency Hazards Docs	Pending	
722	Lead (Pb) Docs	Approved	4/18/2023
723	ESH Training Docs	Approved	4/18/2023
724	Updated Required ISO Documents	Approved	4/6/2023
725	WBS Register	Approved	4/5/2023
726	Update to H&S Form	Approved	4/6/2023

CCR#	Title	Status	Approval Date
727	Update ESH documents for SURF website	Approved	4/13/2023
728	Trenching and Excavation Standard Docs	Approved	4/25/2023
729	Fatigue Management Docs	Approved	4/25/2023
730	New IT Work Instruction	Approved	4/17/2023
731	New IT Work Instructions	Approved	4/18/2023
732	Update to WPC Standard	Approved	4/25/2023
733	Update to IMSM & Engineering Docs	Approved	5/1/2023
734	ALI Standard	Approved	4/25/2023
735	New and Updated IT documents	Approved	4/20/2023
736	Update to IMS Org Chart and Archive others	Approved	5/16/2023
737	Update to Spill Response Flow Diagram	Approved	4/25/2023
738	Update to Guide Cert Form	Approved	4/25/2023
739	SOP for Low Voltage	Approved	4/26/2023
740	SOU SOPs	Approved	4/27/2023
741	SOU WWTP WIs	Approved	5/1/2023
742	Update to User Association Charter	Approved	5/16/2023
743	Changes to EMS	Approved	5/3/2023
744	Change SDSTA Emergency Contact List from Admin to HR	Approved	5/3/2023
745	WWPT SOP 037	Approved	5/3/2023
746	Hazcom Standard Update	Approved	5/17/2023
747	PPE Docs Updates	Approved	5/17/2023
748	Update to IT Standards	Approved	5/24/2023
749	Admin Service Docs	Approved	5/5/2023
750	Telephone List Registers	Approved	5/5/2023
751	Unwanted Event Summary Changes	Approved	5/8/2023
752	H&S Docs	Approved	5/10/2023
753	SOU Work Instruction Docs	Approved	5/9/2023
754	Calibration Docs updates	Approved	5/24/2023
755	IT Docs Updates & New	Approved	5/17/2023
756	Change to DCCS Docs	Pending	
757	Ventilation Quarterly Survey Form	Approved	5/17/2023
758	IMSM Doc Update and Changes	Pending	
759	Update and creation of SOPs for Dewatering and Electrical	Approved	5/18/2023
760	Update to Blast Permit	Approved	5/22/2023

- Completed projects
 - Deep-well Pump Replacement
 - Ross Cage Counterweight Install
- Other completed activities
 - Internal Process Audits
 - Communications
 - Accounting & Finance Office
 - Executive Leadership
 - Environment, Safety and Health Department
 - Information Technology Department

- Installation and activation of Audit/NC/CA Software (uniPoint)
- QC Specialist Level 1 hired

Upcoming Activities

- Upcoming Development and Release of QA/QC Training
 - uniPoint User
 - Internal Auditor Training using unipoint
 - Revised ISO/IMS Annual Refresher Training
- Upcoming Projects
 - Access Control Project (Phase II)
 - 3650L Pump Room Rehab Project
 - WWTP RBC Replacement
 - Completion of Saddles Torquing 5,6,7 Locations (3stimated date 8/2023).
 - East Switchyard Power Cable Replacement
- In-Process Projects
 - Oro Hondo Fan Project
- Upcoming other activities
 - CY2023 Surveillance Audit (Orion)
 - Science Department Internal Audit
 - Engineering Department Internal Audit
 - Hoists and Shafts Department Internal Audit
 - Contracts and Procurement Office Internal Audit
 - Education and Outreach Department Internal Audit
- In-Process (IP) other activities
 - Underground Operations Internal Audit
 - COTO log reviews
 - Management Review (second meeting)

Science Support Status

- Interactions continue with next-generation dark matter projects engaged in the P5 process. The P5 committee is expected to circulate preliminary recommendations to DOE and the National Science Foundation (NSF) in September followed by reviews then submission to the High-Energy Physics Advisory Panel (HEPAP) in October.
- SURF participated in two congressional briefings this summer to promote funding for LBNF/DUNE.
- SURF talks were well received at the XVIII International Conference on Astroparticle and Underground Physics (TAUP) 2023 held August/September in Vienna, Austria. A group of representatives from global underground laboratories met to establish a working group that would tackle topics of mutual interest.
- Plans are advancing for the Science Program Advisory Committee (SPAC) meeting being held September 27-29.
- Meeting with SD Mines VP Research and faculty did not identify obvious Quantum Information System (QIS) connections for SURF, but funding proposed for a SD Center for QIS may present future opportunities.
- During the quarterly meeting held in August, the User Association Executive Committee discussed user engagement and various aspects of how to provide a welcoming environment for SURF users.
- The month-long CETUP* workshop was very successful, with a total of 68 participants: <https://indico.sanfordlab.org/e/cetup2023>; there were also several public events. Several preprint papers from the workshop have already been posted (more anticipated), and a workshop survey indicated participants had a positive experience. Several student groups (Texas, BHSU, SURF interns) attended CETUP*-related activities.
- Proceedings for the Low Radioactivity Techniques 2022 workshop (co-hosted by SD Mines and SURF) have been published: <https://pubs.aip.org/aip/acp/issue/2908/1>.
- The Laboratory Custodian position was backfilled with new employee Robyn Weis, who started August 7.
- Zero non-conformances were identified during an internal ISO audit of Science Department documentation.
- Interruptions: Shifts were interrupted due to issues with Oro Hondo fan and temporary issues with Ross hoisting system. Power blips due to local storms disrupted Davis Campus experiments as well as some facility HVAC

systems (no significant impacts). Davis Campus humidity levels remain elevated, likely due to high summer humidity and Yates Shaft maintenance. Regional IT network issues briefly disrupted some events (including CETUP* and the LZ collaboration meeting).

LUX-ZEPLIN—LZ

- After the interruption to science run #2 in February due to light emission, science run #3 started June 8. WIMP-search data collection continues with high efficiency despite transient light emission that resumed in August.
- Intermittent detector calibrations continue, including regular Kr-83m and Xe-131m injections, plus diagnostics with LEDs; adjustments were also made to the detector thermodynamics. Planning for the next full calibration campaign in October is underway, including the DD neutron generator.
- After a lengthy review, LZ's first result paper (submitted ~1+ years ago) was accepted for publication: <https://doi.org/10.1103/PhysRevLett.131.041002>.
- In July, the cryocooler vendor reconfigured hardware to allow cryocooler #2 to operate, and while the unit initially performed well, a technician returned to SURF in early September to address continuing startup issues. During the July visit, the 6000-hour maintenance was performed on cryocooler #1.
- Maintenance and re-commissioning of xenon circulation compressor #2 was completed. Due to supply issues, MJD experts are being consulted regarding copper plating onto compressor diaphragms.
- Performance improved following maintenance on the Davis Campus water purification system.
- On the surface, the LZ electronics team is planning to upgrade hardware in the IT Server room, and crews are performing electronics tests on PMT HV supply spares at the Surface Laboratory.
- SURF hosted the LZ collaboration meeting and analysis workshop the last week of June.
- An endorsement from P5 is being sought to extend LZ operation until ~2028 (or ~800 live days) to reach a sensitivity of $<3 \times 10^{-48} \text{ cm}^2$ (to compensate for mainly COVID-related delays).

MAJORANA DEMONSTRATOR—MJD

- The collaboration submitted the Ta-180m paper to PRL (also posted: <https://arxiv.org/abs/2306.01965>); as expected, the new limits are 10-100x better than other recent results.
- After being offline for ~6 weeks due to nitrogen purge system issues, the Ge detector array was turned on in late June to continue Ta-180m data taking. The shield purge system is working well, and parts have been ordered to recommission the glovebox purge system (shield purge system currently covering both).
- Three of four electroforming baths are currently growing electroformed copper; commissioning of the last refurbished bath is expected to be completed soon. Significant SURF transport support was provided for acid.
- Machining continues, including preparing mandrels for new growth and processing grown copper.
- Crews from LANL were onsite to address a minor slow controls computer issue.
- Depth and geologic data were provided for an updated muon flux analysis, and discussions continue.
- Poly shielding has been donated by the collaboration to SD Mines and will be transported offsite.
- Electrowinning continues at the surface WWTP (some neutralizing consumables are no longer used in SURF processes and will be charged to the experiment).

Low-Background Counting

Black Hills State University Underground Campus—BHUC:

- Regular sample and LN logistics continue with SDSTA support. Recent samples include DUNE, nEXO and LZ.
- A power blip associated with a significant storm affected data-taking for most low-background detectors. A new UPS unit was installed for LBNL detectors to replace the previous one that failed, and the UPS configuration was modified for the nEXO Ge-IV detector so that the computer and high voltage supply are now protected.
- Data acquisition system issues for the LBNL-managed detectors were resolved. A data acquisition computer provided by Virginia Tech collaborators for the LBNL Twins dual-crystal detector is being shipped to SURF.
- Measurements to characterize the energy resolution of the nEXO Ge-IV detector were conducted using ambient radon as well as a Pb-210 source. Authorization documentation for production operation is nearly complete.
- Calibrations are being performed for the LLNL dual-crystal system.
- A detector currently operating on surface at UCLA may be installed once the Ross Campus laboratory re-opens.

SIGMA-V

- LBNL/UC Berkeley collaborators were onsite in early August to image drill core collected from the 4100L.

DEMO-FTES

- The Experiment Planning Statement (EPS) was approved by SURF.
- A Pacific Northwest National Laboratory (PNNL) contract for SURF support was signed, and arrangements are underway for electrical upgrades at the 4100L site. Experiment activities are expected to begin on the 4100L in the October/November timeframe.

Compact Accelerator System for Performing Astrophysical Research—CASPAR

- Discussions are ramping up regarding re-commissioning the Ross Campus laboratory space as early as the first quarter of CY2024. Approximately 5 months of work is anticipated to restore full operations.

Other Current Research Activities

Physics

- TESSERACT: Discussions were held in conjunction with an annual DOE briefing regarding the level of SURF support for the project. National funding in France may support installation at the Modane underground laboratory; in that scenario, a separate installation at SURF funded by U.S. DOE-HEP may still be possible.
- Cryogenic Test Facility: The Virginia Tech proposal to NSF to fund a dilution refrigerator was not successful.
- Snowball Chamber: The EPS was approved by SURF, but there is no space immediately available.
- Other: Discussions were held regarding an NSF proposal for a Ge detector production facility at SURF.

Biology

- DeMMO: Collaborators from Northwestern University visited experiment sites on 800L, 2000L, 4100L and 4850L, obtaining geochemistry and microbiology samples.
- Other: An EPS is in SURF review for a project to investigate differences in plant root growth patterns between subterranean and surface conditions.

Geology

- Black Hills Geochemistry: Implementation documentation was completed. The group collected samples from several levels in August and has a proposed date in September for follow-up sampling.

Engineering

- Thermal Breakout: The main heater tool is still in fabrication with testing expected to slip beyond September.
- GEOX™: Progress was made bringing the 1700L airflow meter online on a new IT network.
- NIOSH: Representatives were onsite in August to work with SURF ERT members for a heat stress study.
- Other: Support letters were provided for two SD Mines proposals regarding ventilation and shotcrete technologies. Discussions are also underway regarding establishing a ventilation laboratory at SURF.

Quarterly Work Plan Variances

- The Quarter (May – July) shows an overall overrun of \$1,172,173.
- Labor for the three months shows an overrun of \$531,009. There were three payrolls in June.
- Nonlabor for the three months shows an overrun of \$641,164:
 - Deep Well Pump \$312K.
 - 3650L Pump Package \$643K.
 - Yates Shaft overrun \$697K.

Financial Status

Included in the Financial Report are the following:

- Cooperative Agreement SURF Services FY2023 (federal fiscal year) SPA Curve as of July 2023 (included as Appendix A at the end of the report)
- Financial Summary (included as Appendix B at the end of the report)
 - 1) Balance Sheet as of July 2023
 - 2) Comprehensive Statement of Income July 2023
 - 3) Comparative Balance Sheet – July 2023 vs. July 2022
 - 4) Comparative Statement of Income – July 2023 vs. July 2022
 - 5) Available Resources as of July 2023
 - 6) Operating Budget Summary

Cooperative Agreement (CA) SURF Services FY2023 Scheduled Performed Actual (SPA) Curve

- The SPA curve presented in Appendix A provides a summary of the CA-SURF Services Award No. DE-SC0020216 scheduled financial performance compared to the actual costs. The report shows funding through July 2023 along with information related to Funded-to-Date dollars, Scheduled dollars, and Actual dollars by month. Actual dollars represent actual invoices for the months sent to the DOE Office of Science for reimbursement. For July, the invoices totaled \$2,401,245 which is higher than the anticipated reimbursements of \$1,903,488 by \$497,757. Cumulative expenses are at \$91,344,141 which is higher than the budgeted \$89,993,663 by \$1,350,478. Supplements to the SURF Operations Cooperative Agreement totaling approximately \$2M are expected in September which will eliminate the current overrun.

Balance Sheet Items

- Cash in Local Checking—Total on hand July 2023 was \$3,301,768; up slightly from last month by \$197,425. Funds on hand were necessary to pay operating expenses including employee salaries, medical/life/vision insurance and other items.
- Cash with State Treasurer—Total balance of \$23,929,711; This amount decreased from last month by \$84,780 with the use of the cash provided by South Dakota Senate Bill 35 (SB 35) for the underground expansion phase A.
- Billed Accounts Receivable (A/R)—Billed A/R represents any open invoices based on contracts from sources such as the DOE Office of Science, LBNL, Fermilab, other smaller contracts from other universities/private entities, and Barrick-Homestake Mining Company. Total is at \$2,174,184; up from last month by \$109,811. Included in the balance are open invoices for \$224,105 from Fermilab primarily from the contract for Ross Shaft Logistics Support; \$1,900,327 from the DOE for the Cooperative Agreement; \$3,580 from SD Mines for the MJD project; \$2,382 from Thyssen Mining Incorporated (TMI) for equipment rental; \$14,226 from LBNL for the LZ project; and \$29,564 from the Barrick-Homestake Mining Company for electrical usage reimbursement and water treatment.
- Unbilled A/R—Current balance is \$111,404. The unbilled A/R represents items that have not been billed on various contracts, in this case it was for expenses related to the CAT reimbursement. July's balance increased by \$37,663, from June.
- Other A/R—Current balance of \$442,936. This balance represents Interest Receivable and Miscellaneous Accounts Receivable. The balance increased by \$16,927. Activity for this month includes recording the interest accrual for July.
- Inventory/Supplies—Balance at \$2,624,415 for fixed assets being stored but not in service. This balance increased by \$17,699 from last month.
- Inventory Warehouse/Personal Protective Equipment (PPE)—Current balance of \$439,445. This balance represents the warehouse inventory that was purchased by SDSTA prior to federal funding, the warehouse inventory purchased with federal funds and an inventory category for the SLHVC inventory. The balance was unchanged from the previous month. All three inventories have separate account balances that are tracked. Yet they are summarized on the balance sheet under one category.
- Other Current Assets—This listing on the balance sheet represents the balances of both prepaid insurance—\$836,009 and prepaid other \$70,870. Total balance of \$906,879 decreased from last month by \$321,105. This decrease is primarily due to final payment made on the 3650L pump and motor in July.
- Fixed Assets—Current balance of \$93,993,222. Fixed assets activity since last month includes recording the ERT training tower, 2 wire rope thimbles for the Ross skips, and a hoist rope oiling system, \$38,859. The net decrease of \$200,658 since last month includes depreciation on fixed assets. Note depreciation for the DOE Property Transfer items is separated as this amount will not be included in our indirect cost recovery on contracts.
- Asset Retirement Obligation Deferred Outflows (ARO)—There would be costs associated with closing the SURF facility, if abandoning the site would occur. Outside regulatory agencies that would be involved with oversight of the closure would be the U.S. Environmental Protection Agency, and the South Dakota Department of Agriculture and Natural Resources. The capital assets on SDSTA's financial statements that would be included in the asset retirement obligation are land, above ground and underground infrastructure, and buildings. A team of internal experts was used to develop the estimate including mining engineers, mechanical engineers, construction managers, heavy equipment experts, all with expertise in mining, underground and environmental industries. The methods and assumptions used by these experts were to estimate hours associated with completing all necessary

tasks using a current average salary and benefit rate, plus any associated contractor fees. The ARO balance is \$1,129,638 and will be depreciated over an estimated useful life of 30 years.

- Pension Deferred Outflows—This designation on our Balance Sheet reflects the requirements related to the Governmental Accounting Standards Board (GASB) No. 68 and No. 71 in reference to pensions. SDSTA is required to report the net pension asset or liability on the face of our financials along with related deferred inflows and outflows. The State's retirement system is now fully funded. The Net Pension Asset is a restricted asset. Thus, the equity created is also restricted. The balance Pension Deferred Outflows shown as a noncurrent asset is \$11,243,669 created by the FY2022 financial entries.
- Xenon Purchased—Balance of \$8,687,833 represents the value of xenon purchased for use by experiments. The xenon inventory is considered a non-current asset and includes all the purchases through fiscal year 2020. The processed xenon is located at SURF and being used in the LZ experiment.
- Total Assets—Total of \$148,985,105. This balance has decreased from last month by \$227,018 which represents the net activity as listed above.
- Accounts Payable—Our Total Accounts Payable balance of \$1,547,230 at the end of the month compared to last month has increased by \$755,373. This increase is primarily from the last payment made for the 3650L pump and motor package, \$228,339; payment made to the Executive Management Finance Office for our captive insurance plan, \$222,731; and, payment made to RCS Construction for the Sacred Circle Garden project, \$107,000.
- Accrued Payroll Liabilities—Current balance of \$1,812,985 has decreased by \$80,963 from last month. This represents the net change between earned vacation and vacation taken and other changes in employee benefit-related liabilities.
- Long Term Xenon Notes Payable—This designation represents \$2M of funding received from the South Dakota Community Foundation, \$2M received from the University of South Dakota Foundation, and \$2M received from the South Dakota State University Foundation. The \$6,000,000 was designated for purchasing xenon for experiment use at SURF. The balance is currently \$3,121,190 after a principle payment was made this past year with the proceeds from the sale of a small portion of the xenon.
- Pension Deferred Inflows—This classification reflects the requirements of GASB No. 68 and No. 71, as discussed earlier. The balance of \$9,300,127 represents our portion of the difference between projected and actual earnings on pension plan investments with the South Dakota Retirement System.
- Asset Retirement Obligation (ARO)—This is an estimated liability for costs associated with closing the SURF facility, if abandoning the site would ever occur. The ARO balance is \$1,129,638 and will be adjusted annually.
- Total Liabilities—Total Liabilities increased by \$674,410 (from \$16,236,761 to \$16,911,171), which reflects the net activity listed above.
- Total Equity—Decreased to \$132,073,934 from the previous month of \$132,975,361.
- Total Liabilities & Equity—Increased to \$148,985,105 from the previous month of \$149,212,122.

Statement of Income Items

- On the SDSTA's Statement of Income, the DOE Subcontracts are consolidated into one line on the report. Included in this amount are various subcontracts from LBNL, Fermi National Accelerator Laboratory (FNAL), the Cooperative Agreement with the DOE Office of Science, as well as a small contract for the MAJORANA project with SD Mines. Total revenue through July is \$2,925,919.
- Interest income recorded for the current fiscal year on State Funds is at \$19,941. This represents interest accruing at 1% on the cash held by the state on behalf of the SDSTA.
- Direct Costs are then listed on the Statement of Income. The classifications for Unallowable Costs and Indirect Costs are listed as well on this report to follow the federal contracting format. Direct Costs/Unallowable Costs are at \$2,260,925 for the current fiscal year. Indirect Costs including fringe benefits are at \$1,723,139. Costs are higher than revenue by \$1,037,543.
- Other Income is at \$69,853 which primarily represents miscellaneous income received from TMI, scrap metal receipts, and amounts from Barrick.
- Miscellaneous Expenses and Donations is at \$112,448 for current year fixed assets that were purchased on federal funds through the Cooperative Agreement, and sales at the SLHVC.
- Loss (Gain) on Sale of Fixed Assets is at \$1,855 for the current year.
- Net Income through July is at a loss of \$700,769.

Comparative Balance Sheet

- Total in Local Checking is lower by \$1,353,023 from this time last year.
- Total Cash with State Treasurer is higher by \$12,783,163 from this time last year as funds have been received from the State in SB 35 as well as funds have been used for the Experiment funds for the xenon-related expenses.
- Total Current Assets are higher than last year by \$10,720,230 primarily from the cash received from SB 35 for the underground expansion phase 1.
- Total Fixed Assets are lower by \$191,279 when comparing the two-time frames. The biggest change was in fixed assets purchased on the Cooperative Agreement federal funds – an increase of \$2,705,503.10; primarily from finalizing the tuck pointing and roof drain project and construction of the Wastewater Treatment Filtration bldg. The second biggest change included depreciation increase of \$1,797,912 from last year.
- Asset Retirement Obligation Deferred Outflows is being reported for \$1,129,638.
- Pension Deferred Outflows has not changed from last year and based on the fiscal year 2022 entries.
- Xenon purchased decreased by \$246,517 due to the sale of some excess amounts last year. Proceeds were used to pay down the LT Xenon Notes Payable.
- In summary, Total Assets have increased by \$10,282,434.
- Total Current Liabilities are higher by \$268,937 when comparing the two-time frames. Total Current Liabilities is higher primarily due to Accounts Payable for the period being higher.
- Other Liabilities—LT Xenon Notes Payable has decreased by \$2,878,810 with the proceeds from the sale of a portion of xenon being used to pay down the amount owed to the three foundations.
- Total Restricted Funds are higher by \$12,724,770, primarily due to the entry of the Restricted SB 35 Appropriation for the underground expansion phase 1.
- Investment in General Fixed Assets has decreased by \$191,279 for the various additions of fixed assets and projects purchased on federal funds, and work in progress being reported.
- Unrestricted Funds are higher by \$358,815 when comparing the two-time frames.
- Total Equity has increased by \$12,892,307 from this time last year.
- In summary, Total Liabilities & Equity have increased by \$10,282,434.

Comparative Profit/Loss

- Total Revenue for year-to-date July 2023 compared to year-to-date July 2022 has increased by \$483,204. This increase is primarily an increase in activity on DOE subcontracts. Direct Costs and Indirect Costs for year-to-date July 2023 compared to this time last year shows a combined increase of \$1,178,401. Net Income/Loss for the comparative time periods shows an increase in loss of \$576,106.

Available Resources

- This report reflects SDSTA's available cash/accounts receivable after noting the restricted cash balances in the Indemnification, Mine Closure, SB 35 Appropriation, and funds held for Experiments—interest for investors. This report reflects available cash and (short term) accounts receivable as compared to current liabilities including accrued payroll liabilities. After noting current obligations, \$3,613,739 is available. It is also important to note that the accrued payroll liabilities include accrued vacation and sick pay. Therefore, the report reflects SDSTA's available resources compared to current obligations.

Operating Budget Analysis

- This report is separated into three sections: SDSTA-funded activities, Federal, State, and Commercial funded activities and Indirect expenses that benefit various activities. Total operating expenses are over budget for July by \$486,401. This is primarily due to expenses for the CA higher than budgeted.
- Year-to-date figures are over budget by \$486,401.

Human Resources

Projects:

- Launched Application Programming Interface (API) between HRIS and Finance System
- Launched Electronic data interchange (EDI) between HRIS and Benefit Providers
- Successfully processed first-time Short-Term Disability Claims
- Implemented Succession Planning and Role Transition Process (praised by ISO external auditors)
- Drafted Compensation Philosophy and Strategy for review and approval

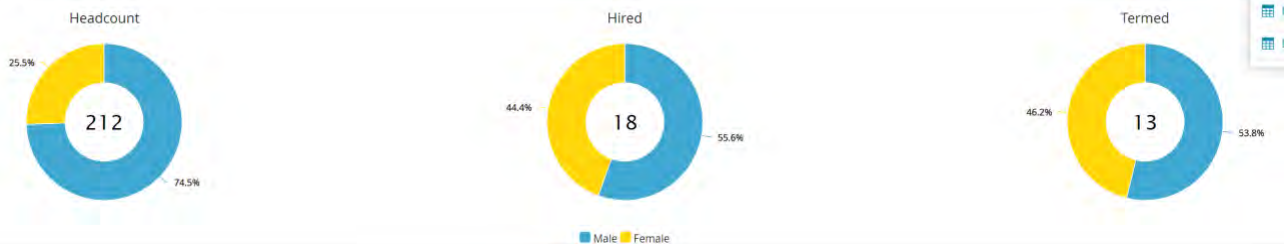
Hires: 18

Terms: 13 (7 were summer interns)

Data:

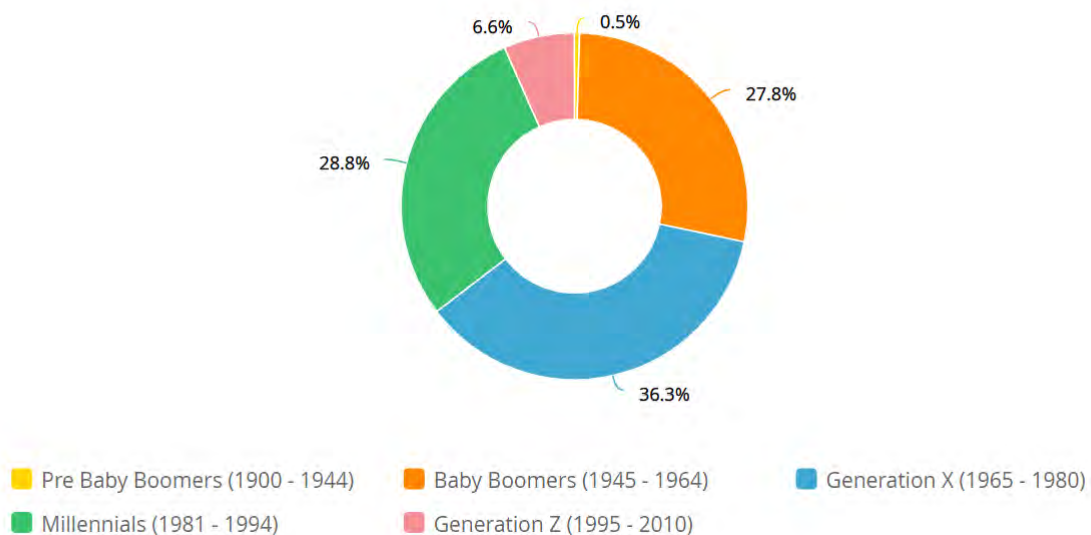


Gender (Legal) at a Glance

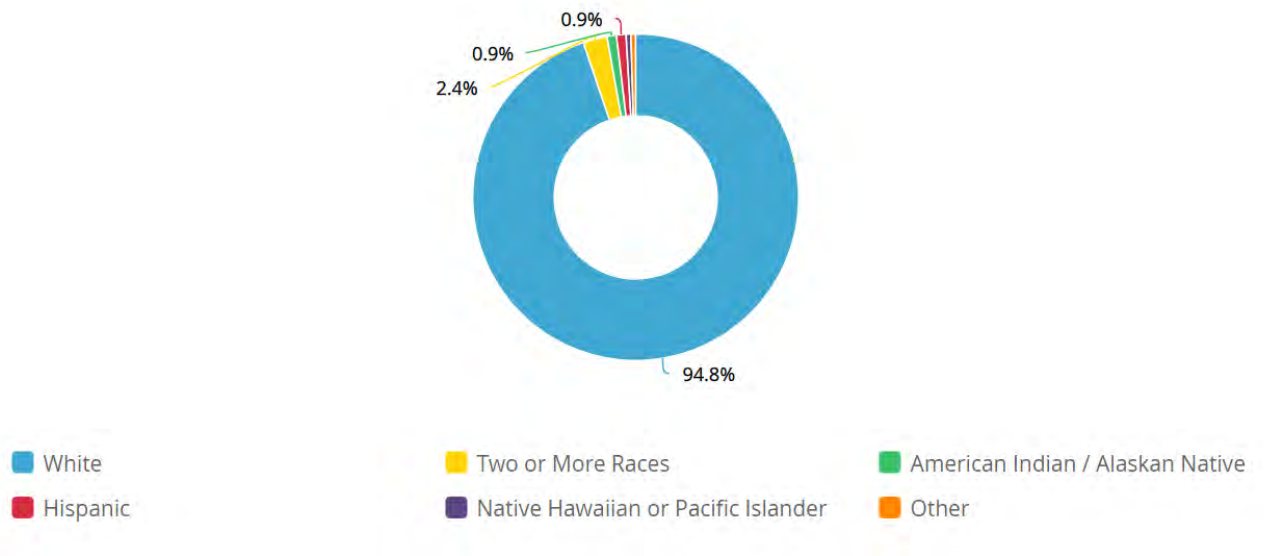


Generation

Current



Ethnicity



Professional Staff Services – Subcontract No. 607915

Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Facility (DUNE)

- Worked to on-board/train a new electrical engineer hired by LBNF to support the LBNF/DUNE project. This person was hired by FRA to be an electrical engineering subject matter expert for the project.
- Worked with FRA/Arup/KAJV to develop an approved procedure to remediate issues with incorrectly installed junction boxes in the Ross Shaft. Work is pending scheduling for execution.
- Attended meeting with ARUP to review coordination and ground fault setting issues on LBNF/DUNE equipment.

LZ Operations Phase I – Subcontract No. 7525117

Other Experiment Support

LUX-ZEPLIN (LZ)

- Ancillary Water Sampling System: Working with onsite and offsite resources, the Ancillary Water Sampling System was designed, installed and integrated into the water purification system.
- Xenon Circulation Compressor 2 rebuild was completed and verified with a 2-week run as the primary circulation compressor. It is currently serving as a backup to Compressor 1.

Indirect Funded Activities Status

Contracts Status

Department of Energy (DOE) subcontracts to SDSTA

US Department of Energy, Office of Science

- SDSTA received modification No. 28 for *Replace the Power Cable to the East Switchyard* (IPP Project).
- SDSTA received modification No. 29 for the *Additional Funds for Yates Shaft Supplies and Deep Well Pump Replacement*.

Fermi Research Alliance

- SDSTA received a Supplemental Agreement (SA) on contract No. 674969 *LBNF Logistics Support Services* for incremental funding for operations and the initial payment for the Owner's Interest Policy Insurance (SA #10).
- SDSTA withdrew the proposal for *General Support Services (Bull Gang)*.

Lawrence Berkeley National Laboratory

- SDSTA closed out the *SIGMA-V* contract No. 7371823.

Summary of Contracts Awarded by SDSTA June – August 2023

Contract No.	Contractor/Vendor	Type	Project
2023-20	Mountain Plains Audiology Inc	NEW	Audiological Testing, Evaluations
2023-21	Western States Fire	NEW	Fire Extinguisher and Sprinkler Service/Inspection
2022-51	Brian Marlow	CO#1	Revise Scope
2022-48	Hydro Resources	CO#4	Additional Scope
2020-34	Stantec	RFP	Operational Capabilities and Capacities for the Ross Shaft
2023-19	TMI	NEW	4850L UG Lab Expansion
2017-13	Professional Mapping & Surveying	Internal CO	General Services – Surveying & Mapping
2020-16	Western States Fire Protection	CO#17	60-day extension
2023-26	Instructure, Inc.	NEW	Bridge LMS
2019-20	ATI Consulting	CO#05	Risk Assessment Consulting
2015-17	Butler Machinery Company	CO#12	Generator 130KW Repair
2017-38	Paradigm	CO#16	On-Site Occupational Health Nurse
2023-27	Galyn Rippentrop	NEW	Three Year Consulting FACC
2023-28	Fat Boy Consulting	NEW	Three Year Consulting SSAC
2021-03	Carl Barchet	CO#03	One Year Extension
2019-39	North Central Supply	CO# 10	Ross Ramp Door Repairs
2019-31	Wolff's Plumbing & Heating	CO# 11	Nurse Station Water Heater
2019-28	Jacobs Welding & Machining	CO#35	Skip Guide Assembly
2023-30	Titan Labs	NEW	LZ Oil Analysis
2019-30	Wolff's Plumbing & Heating	CO#10	Extension to 12/31/23
2019-31	Wolff's Plumbing & Heating	CO#10	Extension to 12/31/23
2020-32	Johnson Controls	CO#13	Extension to 12/31/23
2023-29	Mud Mile Communications Inc	NEW	Google Analytics 4
2022-32	Sacred Circle Garden	CO#1	Modify scope and add funds
2022-53	Amick Sound	CO#1	Reprogram DC Fire Panel
2019-39	North Central Supply	CO#11	Oro Hondo Lock

Purchase Orders (POs): 567 POs were issued June 1 – August 31 totaling **\$1,292,959.00**.

Warehouse Inventory: Warehouse inventory as of August 31, 2023 totaled **\$253,609.56**.

Inclusion, Diversity, Equity and Access (IDEA) Status

- IDEA worked alongside the Communications Department to host John and Henry Red Cloud, of Red Cloud Renewable, as speakers during Neutrino Day. John and Henry made a profound impact on SURF staff and Neutrino Day attendees with their presentation.
- The IDEA Office supported students in the Ateyapi (Lakota for Fatherhood) Program from Rapid City in attending Neutrino Day. The Ateyapi Coordinator shared her appreciation for the support and the profound impact the day had on her students.
- IDEA hosted a kick-off for the Sacred Circle Garden on August 22nd to preview current progress of the Garden, fundraising efforts and a look ahead at programming for 2024.
- IDEA supported the Sanford Lab Homestake Visitor Center (SLHVC) in hosting a South Dakota Humanities Council One Book South Dakota discussion session and author talk, on August 28 and September 20, respectively. *The Seed Keeper* by Diane Wilson was the One Book South Dakota book chosen for 2023 and has themes crossing indigenous culture and knowledge as well as farm history and seed development.
- The IDEA Office continues to adjust its programming efforts to best fit staff needs.
- The IDEA Office has outlined programming for the Sacred Circle Garden for spring and summer 2024, including a speaker series to mirror Deep Thoughts, called Deep Roots. Topics will include culture, science, art and history.
- IDEA has submitted a summary of its work related to the Equity, Diversity and Inclusion (EDI) alongside SNOLAB as an article to Frontiers in Physics regarding best practices in EDI in underground laboratories specifically.
- Lunch and Learns at SURF are continuing, with the next Lunch and Learn to be held in October, outlining plans for The Institute.
- Construction of the Sacred Circle Garden is nearing completion, with a projected end date of September 29, 2023. Planting of the garden will occur in June 2024. IDEA and the SURF Foundation are working to increase public understanding of the Sacred Circle Garden by hosting booths at Neutrino Day, Lead Live, the Lead Opera House Native American Day performance and the South Dakota Master Gardeners annual meeting.
- IDEA is continuing its work with the SLHVC to update materials for public education, including the video script, photo frieze and others. Work is also being done to improve accessibility.
- Coffee breaks continue at SURF. In July, ESH hosted a coffee break in tandem with the Jack Stratton Memorial Car and Motorcycle Gathering which was widely attended by SURF staff, family and retirees.
- The IDEA Office, E&O Team, and colleagues from Black Hills State University are collaborators on the Cultivating Indigenous Research Communities for Leadership in Education and STEM (CIRCLES) Alliance, an NSF grant geared at increasing Indigenous STEM education and career readiness opportunities. South Dakota is working closely with the North Dakota team on developing a library of Indigenous Based STEM curricular resources and continuing education opportunities for teachers. The annual in-person conference of the CIRCLES Alliance will be in South Dakota this fall with a tour of SURF scheduled. Enrolled members of indigenous tribes from six states will be in attendance.
- IDEA is working with the Communications Department to update the Sacred Circle Garden webpage and related materials.

Education and Outreach (E&O) Status

K-12 Education and Outreach

Curriculum units

- Requests for curriculum units have been steady in July and August. There are currently 27 scheduled requests with 10 curriculum units currently in use in classrooms. This is a significant jump compared to last year.
- During the 2022-23 school year, 49 curriculum units were utilized in districts in South Dakota, North Dakota, and Wyoming, impacting the science learning of 2,554 students.
- The curriculum unit *There and Back Again* is going through a thorough review to update and revise the content and teacher facilitation guide.

Field trips (onsite)

- Field trips were hosted in July and August for a SD Mines physics summer camp, the Spearfish Recreation Center student group and the Pine Ridge Job Corp welding students out of Chadron, Nebraska.
- There are currently 12 school groups that are confirmed for field trips this fall with two more working on possible dates and schedules.
- Cheyenne-Eagle Butte School District is bringing their new teachers to SURF for a tour on Saturday, September 9th as part of their cultural exploration of the Northern Black Hills. SURF interactions with the teachers will include a presentation at the Sanford Lab Homestake Visitor Center, an exploration of student and teacher resources, and a Yates hoistroom tour.

Classroom presentations

- In July and August presentations were given at SD Mines for a high school science camp and at St. Joseph's Indian (Elementary) School in Chamberlain.
- Fall classroom presentations have been scheduled, including LB Williams Elementary (Mitchell), Madison Elementary, and a team visit to Cheyenne-Eagle Butte for presentations at elementary, middle and high school. Activities are also being coordinated with the students in attendance after school at the Cheyenne River Youth Project.
- The E&O team is showcasing five different presentations for SURF staff to share what it looks like to work with students and to seek suggestions for improvement. The first event was in August and was a great success.

Professional Development (PD)

- In June, July, and August, E&O team members created and/or facilitated professional development opportunities for K-12 science and math teachers, including: a face-to-face residential week-long Science workshop focused on CORE student engagement, a virtual week-long Implementing 3-Dimensional Teaching workshop, two residential week-long K-5 Integrated STEM Teaching workshops, several three-day virtual SD Established Program to Stimulate Competitive Research (EPSCoR) Science Teaching workshops, a week-long Computational Thinking in Elementary STEM workshop, and a Quarknet Physics Teacher workshop. Partnerships make this possible, including Black Hills State University, South Dakota State University, SD EPSCoR, Quarknet and Technology & Innovation in Education (TIE).
- E&O team members are supporting Lead-Deadwood Elementary teachers in writing integrated STEM lessons for the SD STEM grant awarded to the school in Spring 2023.
- A new professional development teacher workshop is in development to integrate the Sacred Circle Garden and the process of creating engaging and relevant learning experiences for K-12 students. Facilitation is planned for June 2024.

Undergraduate

- In October, the E&O team will host three sections of BHSU undergraduates in their K-8 science methods preparation for a tour, engineering challenge, and discussion about best practices in teaching and learning science.
- E&O team members have scheduled visits this fall with pre-service educators at both Northern State University (face-to-face) and Dakota Wesleyan University. E&O curriculum kits and resources will be showcased as well as best practices for engaging students in rigorous and relevant science learning experiences.

Other

- Chad Ronish facilitated a valuable summer internship experience for ten interns: two in education, two in science, one in Communications, one in IT, one in Operations, two in engineering, and one working in both engineering and education. Feedback from all involved has been excellent. These internships were facilitated in collaboration with departments across SURF and were supported with partnership funds/programs at SD EPSCoR, SD Job Corp and SD Space Grant Consortium.
- E&O team members, along with IDEA team members engaged with families in Lead by staffing an activity booth at the Lead LIVE community event in August.
- A successful experience was provided for the eight Davis-Bahcall Scholars and two chaperones, including both national and international travel. The scholars came from Rapid City Central, Hill City, Brookings, Rapid City Stevens, Sioux Falls Washington, Augustana University, SD Mines, and South Dakota State University. Pictures and information about their experience can be found on the Davis-Bahcall Scholars Program Facebook page.

- Ashley Armstrong was selected by the SD Department of Education to serve on the South Dakota Science Standards Revision Committee.
- E&O team members will be supporting the grand opening of the water exhibit at the Sioux Falls Washington Pavilion with two interactive booths – one focusing on water and one on particle physics.
- Refer to Table 1 below for the annual numbers from fiscal year 2016 to present.

Table 1. K-12 Students: Fiscal year final numbers (July 1 – June 30)

	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Curriculum Units	934	3504	2286	3598	3236	3384	3718	2554
Presentations	8734	8157	6304	6704	3704	2005	14038	12799
Field trips	595	660	796	1117	254	58	485	972
Other	10	891	825	1055	918	298	1468	1596
Total	10273	13212	10211	12474	8112	5745	19709	17921

Communications Status

- Communications coordinated a successful Neutrino Day that brought more than 2,000 people to events and activities throughout the City of Lead. New vendors included Little Shop of Physics and Dick Termes from Termesphere Gallery.
- Neutrino Day speakers included Chief Henry and John Red Cloud from Red Cloud Renewables.
- Two new Communications staff were hired; Communications Director Ann Metli started in late August and the new Media Relations Manager will start in mid-September.
- Two floor-to-ceiling advertisements were placed in the Rapid City Airport at the beginning of July.
- Communications replaced the window clings at the Sanford Lab Homestake Visitor Center and added a new image of the excavated caverns for the LBNF/DUNE experiment; the image encourages visitors to “Picture Yourself Underground.”
- The Communications team rolled out pilot virtual reality photographs and worked with partners to assist in setting up devices for use at Fermilab.
- Work was completed with Aten on the Institute for Underground Science website and branding. The website is ready for release when The Institute launches later this year.
- Work continues with rebranding efforts and reskinning the new website. Several logo options are being discussed and refined with cooperation throughout the organization.
- The underwriting contract was renewed with South Dakota Public Broadcasting.
- In conjunction with Sanford Lab Homestake Visitor Center, Communications continues to identify third-party travel resources hosting tourism-related content to ensure accurate information is available to potential visitors.

Community Outreach/Media/Site Visits/Presentations

- Roads Scholars presentation, Constance Walter, June 11.
- Neutrino Day kickoff, July 7, Sanford Lab Homestake Visitor Center.
- Neutrino Day, July 8, 2023; locations throughout Lead.
- Several interviews for Neutrino Day with local media, including Haugo Broadcasting, Homeslice Media Group and South Dakota Public Broadcasting.

Upcoming Community Outreach/Media/Site Visits/Presentations

- TAUP Vienna science outreach presentation, Constance Walter, Aug. 28, 2023.
- Roads Scholars presentation, Constance Walter, Sept. 11.
- SD Emergency Management Conference presentation, Constance Walter, Sept. 11.
- SD GIS presentation, SDSTA Engineer Cory Pritchard and Constance Walter, Sept. 12.
- SD Ag and Natural Resources presentation and Garden tour, Constance Walter and Pam Hamilton, Sept. 14.
- Washington Pavilion ribbon cutting, Sept. 21 (SDSTA and SURF Foundation Board meetings) and SURF Day with SURF staff, Sept. 23.
- BioTech Summit, Constance Walter and Markus Horn, Oct. 12.
- Deep Talks: Dark Matter Day, Oct. 26.

- NewsCenter1 605 West; visits in September and October.

Video, Web, Graphics

- A new 3-D isometric infographic map was created by the Communication intern.
- An LZ poster was updated for the Davis Campus.
- A new brass board was created for the Ross Shaft.
- A new animated introduction for The Drift was created and a new style established for the series.
- A teacher professional development video was created to showcase efforts of the E&O team.
- A Neutrino Day sizzle reel was created, as well as a 30-second teaser.
- Wall graphics were created for the water exhibit at the Washington Pavilion.

Photos of recent events/milestones are included as Appendix A.

News Coverage

- [Exploring the world around us: SURF educator professional development creates connections and inspires teachers](#), by Constance Walter, Black Hills Pioneer, Aug. 16, 2023
- [Climbing the career ladder through internships](#), by Juliet Winger, Black Hills Pioneer, Aug. 3, 2023
- [Muon g-2 doubles down with latest measurement, explores uncharted territory in search of new physics](#), by Madeleine O'Keefe, Fermilab, Aug. 10, 2023
- [Our universe is humming with gravitational waves](#), James Dacey, Physics World, Aug. 7, 2023
- [The new hunt for dark matter](#), Ivan Semeniuk, The Globe and Mail (Alberta Edition), Aug. 5, 2023
- [Neutrino Day immerses Lead in Science](#), Black Hills Pioneer Staff, Jul. 11, 2022
- [Clamor of Gravitational Waves From Universe's Merging Supermassive Black Holes 'Heard' for First Time](#), by Thomas Sumner, Simons Foundation, Jun. 28, 2023
- [Neutrinos Build a Ghostly Map of the Milky Way](#), by Kenneth Chang, New York Times, Jun. 29, 2023
- [A call to cite Black women and gender minorities](#), by Katrina Miller, Symmetry Magazine, Jun. 27, 2023

Information Technology Status

Projects

- Upgraded uniPoint server.
- Added Johnson Control server to critical backup schedule.
- Set up restore testing schedule for critical servers.
- Onboarded 10 new Meraki APs, created new VC wireless network, deployed APs and a new Cisco switch at SLHVC.
- Created new wireless network for Science and new wired network for Communications.
- Configured new Extreme switch to replace old Extreme switch at 4850L Yates.
- Upgraded firmware on Fortigate firewalls and Ivanti VPN to address security vulnerabilities.
- Password Standard submitted for CCB

Daily Activities

In addition to work order activity, IT monitors and reviews wireless and general network activity and counts, network hardware readiness, VPN Remote Access logs, Firewall logs, and establishes new VPN and DocuShare accounts for individuals and user groups, as requested.

June – August 2023 Events

- The Administrative Services team registered 673 visitors from June 1 to August 31. Access badge requests continued to be processed and monthly badging reports distributed.



Number of New Visitors, Users and Contractors On-Site

- The Visitor Registration Monthly Reports were submitted electronically to the SD Fusion Center/Homeland Security utilizing the SURF database reporting tool.
- The Monthly SURF Foreign National Visits Reports and Restricted Party Screening Audits were generated and distributed.
- Discussions began on streamlining the SURF Access Request Form (SARF) process and methods to create and populate key fields in SURF's new C-CURE 9000 access control system.

Administrative Services Activities

- Work continued with the following: Purchase orders invoiced and closed in ManagerPlus; monthly office supply orders received and sorted; access badges created; monthly reports and misc documents uploaded to DocuShare; breakroom and espresso machine regularly cleaned; conference rooms scheduled; researcher hours tracked; safety waivers witnessed; and visitors registered into the database.
- Integrated Management System (IMS) document conversion, including Administrative Services work instructions and registers were completed and approved; participated in Neutrino Day; assisted with CETUP* Workshop logistics (before and after); supported the LZ Collaboration meeting and LZ Analysis Workshop, June 26-30. Assistance continued with the coordination of office moves and furniture procurement. Administrative Assistant Ashley Hansen continued to work with QA/QC and conducted a Science Department internal audit in August.
- It was a very busy summer for events and meetings onsite. The Administrative Services team provided logistical support for the following:
 - Jun 5 – University of Michigan Larry Leinweber site visit
 - Jun 6 & 8 – CAT site visit
 - Jun 18-Jul 15 – CETUP* Workshop
 - Jun 14 & 15 – Teachers Workshop
 - Jun 19 – SD Joint Committee on Appropriations site visit
 - Jun 22 – SDSTA BoD Meeting; SURF Foundation Board Meeting; SD Mines site visit
 - Jun 26-30 – LZ Collab at SURF Jun 26-28; LZ Analysis Workshop at SLHVC/Hampton Inn-Lead Jun 29-30
 - Jul 2 – SURF AiRs 2023 site visit
 - Jul 7 – SDPB Live Underground, Neutrino Day Kickoff; evening social at SLHVC
 - Jul 8 – Neutrino Day
 - Jul 11-12 – Two-day Annual EOS Summit, BHSU
 - Jul 13 – Cultural Advisory Committee (CAC) Meeting at SLHVC
 - Jul 18 & 20 – CAT site visit
 - Jul 17-19 – ISO Surveillance Audit
 - Aug 2 – SURF All Hands at the ROC
 - Aug 3-4 – NOVA/Bighouse Production
 - Aug 21 – State Treasurers site visit
 - Aug 22 – Sacred Circle Construction Kickoff event at SLHVC and Garden
 - Aug 23 – Congressional Delegation from IL/SD site visit
 - Aug 29 – Aberdeen Development Corp CEO and Northern State University Provost site visit
 - Aug 30 – Wayne Klein and guests site visit

The SDSTA Board of Directors quarterly meeting was held on June 22, 2023. Board materials and meeting minutes were posted to the Boards & Commissions portal. Miscellaneous policies and procedures were approved and the SDSTA manual updated (Version 5). Preparations began for the next quarterly meeting on September 21. The SDSTA and SURF Foundation board meetings will be held in Sioux Falls at the Washington Pavilion in conjunction with a ribbon cutting for the SURF-sponsored water exhibit at the facility. Planning advanced for the SURF Strategic Advisory Committee (SSAC) meeting being held September 12-14. The next Entrepreneurial Operating System (EOS) summit with Consultant Mike Roth is October 2, 2023.

SANFORD LAB HOMESTAKE VISITOR CENTER

Sanford Lab Homestake Visitor Center (SLHVC) Status

Outreach and Programming

- The SLHVC served as one of the primary venues for the 15th annual Neutrino Day event.
 - Welcomed a record number of attendees, hosted interactive activities and informational booths, and had a record day of sales, resulting in 5x last year's sale total.
 - Hosted the Neutrino Day Kick-Off, bringing together volunteers, donors, and speakers.
- Throughout the four weeks of CETUP*, the SLHVC provided public outreach opportunities for CETUP* participants.
 - CETUP* scientists held weekly Ask a Scientist programs at the SLHVC.
 - Dr. Louis Strigari presented to the Road Scholars, an educational tour company that contracts with the SLHVC for an educational experience as part of their larger tour experience.
 - Hosted a luncheon with the SDSTA Board, Foundation Board, and CETUP* participants in June.
 - CETUP* participants joined in the Neutrino Day Kick-Off event and many participated in Neutrino Day activities.
- Host site for LBNF/DUNE meetings, pre-underground site training for CAT visitors, and KAJV meetings.
- The July Cultural Advisory Committee meeting was hosted at SLHVC.
- Education and Outreach utilized the SLHVC for several of their professional development workshops.
- In collaboration with the IDEA team, hosted a book discussion on the South Dakota Humanities Council's One Book South Dakota text, *The Seed Keeper*, in preparation for the author's presentation and book signing in September.
- The Lead Chamber of Commerce's 4th of July VIP fireworks party was held at the SLHVC, bringing in approximately 120 guests.
- During the Lead Chamber of Commerce's Renaissance Fair in June, the SLHVC was the site for Termesphere workshops with local Spearfish artist, Dick Termes.
- Several summer camps from South Dakota School of Mines and Technology were hosted at SLHVC.
- Lead Chamber of Commerce has met regularly in SLHVC conference room this summer.
- SLHVC welcomed the South Dakota Humanities Council as their location for their summer board meeting.
- Local author, J.E. Terrall hosted a book signing at the SLHVC.

Updates

- Five seasonal team members were trained in sales and tour guiding, and led docent and trolley tours throughout the summer.
- Throughout the summer months, the SLHVC has welcomed guests from over 32 countries.
- The SLHVC has welcomed approximately 80 bus tours over the summer season. Bus tours will continue through September.
- Ashley Beguin, graphic design intern, worked with the SLHVC on developing the design of the Jr. Researcher booklets for young visitors. The SLHVC staff have also been working on creating further themed scavenger hunts and word finds for different age ranges.

SURF FOUNDATION
501(c)(3)

SURF Foundation Status

Work Accomplishments

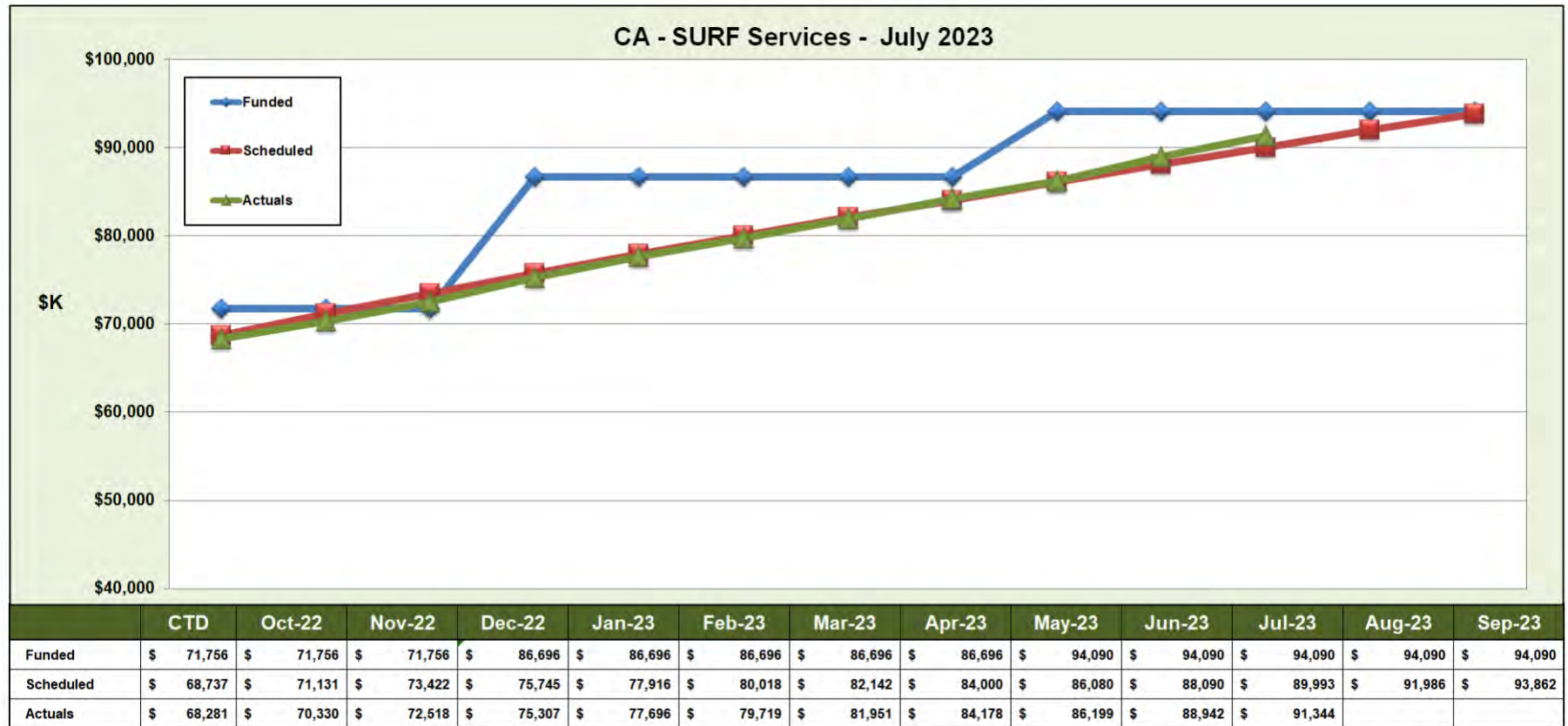
- Establishment of The Institute
 - Worked with Communications on website copy and imagery for The Institute.
 - Assisted with the execution of Center for Theoretical Underground Physics and Related Areas (CETUP*) 2023, which began on June 19, marking a soft launch for The Institute. This involved networking with internal partners, creating promotional materials, arranging a meet-and-greet lunch with SDSTA Board/Foundation Board/CETUP* members and incorporating visiting researchers in Neutrino Day and Ask a Scientist program.
 - Continue to work on budget, fundraising strategy and NSF grant for CETUP* 2024, a five-week program starting June 17, 2024.
 - Set date and logistics for Nobel Day Celebration to publicly announce The Institute—to be held on December 14 at Elevate Rapid City.
- Progress of the Sacred Circle Garden Project
 - Continued to work on strategic messaging and identifying potential grants in collaboration with the SDSTA Inclusion, Diversity, Equity and Access (IDEA) team and an external consultant.
 - Construction by RCS started at the end of June.
 - Submitted a grant proposal for partnership for a Native arts installation and construction of phase 2 assembly area. A decision is expected December 2024.
 - Participated in the Garden Kick-Off event August 22 at the Sanford Lab Homestake Visitor Center welcoming donors, staff and community members including Northern Hills Master Gardeners. This event included a tour of the Garden construction site to see progress.
- Sponsorship Coordination for 2023 Neutrino Day
 - Raised a total of \$21,000 for sponsorships. (Goal: \$20,000)
 - Assisted with a successful Kick-Off party incorporating a wide range of partners include sponsors and donors. Hosted a booth during Neutrino Day and met with all sponsors. It was a great day!
 - Debriefed with each sponsor for lessons learned and best practices.
 - Continue to work on budget and fundraising strategy for 2024 Neutrino Day.
- Outreach, Public Affairs and Internal Activities
 - Participated in the CAC meeting.
 - Attended the SURF Internship presentations and connected with several donors.
 - Attended the Davis Bahcall Scholar presentations.
 - Participated in SURF rebranding sessions.
 - Participated in Director of Communications Search and Screen team.
- Continuing Education
 - Ongoing training in project management tools, donor database, and SURF's internal training and management platforms.
 - Actively building and maintaining relationships with current donors.
 - Met with several non-profit leaders to continue to learn best practices.

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APPENDIX

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**Business Services Department
Appendix A**



DOE SDSTA Fiscal Year 2023 SPA Curve

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July Financial Summaries - Appendix B

REPORT DATE 8/13/2023

SOUTH DAKOTA SCIENCE & TECHNOLOGY

PAGE 0001

DIVISION: ALL

BALANCE SHEET

ASSETS

AS OF
07/31/23

CURRENT ASSETS

First Interstate Checking	\$	3,301,768.12

Total in Local Checking		3,301,768.12
SD Treas: Indemnification		7,500,000.00
SD Treas: Mine Closure		1,533,566.14
SD Treas: Operating		1,386,598.52
SD Treas: SB35 Appropriation		12,915,220.17
SD Treas: Experiments		594,326.21

Total with SD Treasurer		23,929,711.04
Billed A/R		2,174,184.48
Unbilled A/R		111,404.17
Other A/R		442,936.39
Inventory - Supplies		2,624,414.83
Inventory - Warehouse		439,444.50
Other Current Assets		906,878.72

Total Current Assets		33,930,742.25

FIXED ASSETS

Land, Underground & Other		12,743,473.13
Bldgs & Infrastructure		19,145,674.12
Improvements		62,797,546.32
Work in Progress		4,035,307.26
Computer Equipment		366,435.18
Equipment & Fixtures		10,255,507.29
DOE Property Transfer		9,038,962.07
Accum Depr & Amort		(23,418,095.05)
DOE Prop. Accum Deprec.		(971,588.19)

Total Fixed Assets		93,993,222.13

OTHER ASSETS

Asset Retirement Obligation Deferred Outflows		1,129,637.92
Pension Deferred Outflows		11,243,668.96
Xenon Purchased		8,687,833.46

Total Other Assets		21,061,140.34

TOTAL ASSETS

=====

\$ 148,985,104.72

=====

DIVISION: ALL

BALANCE SHEET

LIABILITIES & EQUITY

		AS OF 07/31/23

CURRENT LIABILITIES		
Accounts Payable	\$	1,543,152.84
Other Payables		4,077.63

Total Accounts Payable		1,547,230.47
Accrued Payroll Liab		1,812,985.37

Total Current Liabilities		3,360,215.84
OTHER LIABILITIES		
LT Xenon Notes Payable		3,121,190.01
Pension Deferred Inflows		9,300,127.02
Asset Retirement Obligation		1,129,637.92

Total Other Liabilities		13,550,954.95
EQUITY		
Restricted: Indemnificati		7,500,000.00
Restricted: SB35 Appropriation		12,915,220.17
Restricted: Mine Closure		1,533,566.14
Restricted: Pension		1,943,541.94
Restricted: Experim. Int.		594,326.21
Restricted: Foundation		-

Total Restricted Funds		24,486,654.46
Investment in Gen FA		93,993,222.13
Unrestricted Funds		13,594,057.34

Total Equity		132,073,933.93
		=====
TOTAL LIABILITIES & EQUITY	\$	148,985,104.72
		=====

ALL

STATEMENT OF INCOME

FOR THE PERIOD ENDING 7/31/2023

	YR-TO-DATE
REVENUE	
DOE Subcontracts	\$ 2,925,918.62
State Revenue	-
Checking Interest	660.83
Interest Income	19,941.43

TOTAL REVENUE	2,946,520.88
DIRECT COSTS	
Direct Labor	748,130.45
Board of Directors	557.10
Capital Outlay >\$5K	699,773.04
Contractual Svcs	349,960.88
Inventory	44,779.54
Supplies	148,942.10
Travel - Domestic	85,674.03
Travel - Foreign	5,336.21
Utilities	149,012.87
Other Direct Costs	4,481.79
Unallow/Unbill Costs	24,277.18

TOTAL DIRECT COSTS	2,260,925.19
INDIRECT COSTS	
Fringe Benefits	734,626.65
Overhead	988,512.31

TOTAL INDIRECT COSTS	1,723,138.96

GROSS PROFIT/LOSS ()FROM OPERATIONS	(1,037,543.27)

OTHER INCOME	
Water Treatment	25,341.66
Miscellaneous Income	4,466.63
Other Operating Income	40,045.07

TOTAL OTHER INCOME	69,853.36
OTHER EXPENSES	
Misc. Expenses & Donations	(112,447.60)
Loss (Gain) on Sale of FA	(1,855.00)
Other Unallowable Expense	48,039.56
Reclass Incr Net Assets	(200,658.17)

TOTAL OTHER EXPENSES	(266,921.21)
	=====
NET INCOME/LOSS ()	\$ (700,768.70)
	=====

DIVISION: ALL

COMPARATIVE BALANCE SHEET

ASSETS

	AS OF 07/31/23	AS OF 07/31/22	\$ CHANGE	% CHANGE
CURRENT ASSETS				
First Interstate Checking	\$ 3,301,768.12	\$ 4,654,791.00	\$ (1,353,022.88)	-29.07%
First Interstate Other	-	-	-	0.00%
	-----	-----	-----	-----
Total in Local Checking	3,301,768.12	4,654,791.00	(1,353,022.88)	-29.07%
SD Treas: Indemnification	7,500,000.00	7,500,000.00	-	0.00%
SD Treas: Mine Closure	1,533,566.14	1,533,566.14	-	0.00%
SD Treas: Operating	1,386,598.52	1,386,598.52	-	0.00%
SD Treas: SB35 Appropriation	12,915,220.17	-	12,915,220.17	100.00%
SD Treas: Experiments	594,326.21	726,382.94	(132,056.73)	-18.18%
	-----	-----	-----	-----
Total with SD Treasurer	23,929,711.04	11,146,547.60	12,783,163.44	114.68%
Billed A/R	2,174,184.48	2,548,259.49	(374,075.01)	-14.68%
Unbilled A/R	111,404.17	3,081.67	108,322.50	3515.06%
Other A/R	442,936.39	298,542.90	144,393.49	48.37%
Inventory - Supplies	2,624,414.83	3,237,428.11	(613,013.28)	-18.94%
Inventory - Warehouse	439,444.50	403,500.17	35,944.33	8.91%
Other Current Assets	906,878.72	918,361.43	(11,482.71)	-1.25%
	-----	-----	-----	-----
Total Current Assets	33,930,742.25	23,210,512.37	10,720,229.88	46.19%
FIXED ASSETS				
Land, Underground & Other	12,743,473.13	12,743,473.13	-	0.00%
Bldgs & Infrastructure	19,145,674.12	19,386,433.19	(240,759.07)	-1.24%
Improvements	62,797,546.32	62,813,135.62	(15,589.30)	-0.02%
Work In Progress	4,035,307.26	4,079,796.90	(44,489.64)	-1.09%
Computer Equipment	366,435.18	339,633.81	26,801.37	7.89%
Equipment & Fixtures	10,255,507.29	10,652,505.16	(396,997.87)	-3.73%
DOE Property Transfer	9,038,962.07	6,333,458.97	2,705,503.10	42.72%
Accum Depr & Amort	(23,418,095.05)	(21,620,182.90)	(1,797,912.15)	8.32%
DOE Prop. Accum Deprec.	(971,588.19)	(543,753.17)	(427,835.02)	78.68%
	-----	-----	-----	-----
Total Fixed Assets	93,993,222.13	94,184,500.71	(191,278.58)	-0.20%
OTHER ASSETS				
Asset Retirement Obligation Deferred Outflows	1,129,637.92	1,129,637.92	-	0.00%
Pension Deferred Outflows	11,243,668.96	11,243,668.96	-	0.00%
Xenon Purchased	8,687,833.46	8,934,350.39	(246,516.93)	-2.76%
	-----	-----	-----	-----
Total Other Assets	21,061,140.34	21,307,657.27	(246,516.93)	-1.16%
	=====	=====	=====	=====
TOTAL ASSETS	\$ 148,985,104.72	\$ 138,702,670.35	\$ 10,282,434.37	7.41%
	=====	=====	=====	=====

DIVISION: ALL

COMPARATIVE BALANCE SHEET

LIABILITIES & EQUITY

	AS OF 07/31/23	AS OF 07/31/22	\$ CHANGE	% CHANGE
CURRENT LIABILITIES				
Accounts Payable	\$ 1,543,152.84	\$ 1,207,344.57	335,808.27	27.81%
Other Payables	4,077.63	8,355.77	(4,278.14)	-51.20%
	-----	-----	-----	-----
Total Accounts Payable	1,547,230.47	1,215,700.34	331,530.13	27.27%
Accrued Payroll Liab	1,812,985.37	1,875,578.45	(62,593.08)	-3.34%
	-----	-----	-----	-----
Total Current Liabilities	3,360,215.84	3,091,278.79	268,937.05	8.70%
OTHER LIABILITIES				
LT Xenon Notes	3,121,190.01	6,000,000.00	(2,878,809.99)	-47.98%
Pension Deferred Inflows	9,300,127.02	9,300,127.02	-	0.00%
Asset Retirement Obligation	1,129,637.92	1,129,637.92	-	0.00%
	-----	-----	-----	-----
Total Other Liabilities	13,550,954.95	16,429,764.94	(2,878,809.99)	-17.52%
	-----	-----	-----	-----
TOTAL LIABILITIES	16,911,170.79	19,521,043.73	(2,609,872.94)	-13.37%
EQUITY				
Restricted: Indemnificati	7,500,000.00	7,500,000.00	-	0.00%
Restricted: SB35 Appropriation	12,915,220.17	-	12,915,220.17	100.00%
Restricted: Mine Closure	1,533,566.14	1,533,566.14	-	0.00%
Restricted: Pension	1,943,541.94	1,943,541.94	-	0.00%
Restricted: Experim. Int.	594,326.21	726,382.94	(132,056.73)	-18.18%
Restricted: Foundation	-	58,393.38	(58,393.38)	-100.00%
	-----	-----	-----	-----
Total Restricted Funds	24,486,654.46	11,761,884.40	12,724,770.06	108.19%
Investment in Gen FA	93,993,222.13	94,184,500.71	(191,278.58)	-0.20%
Unrestricted Funds	13,594,057.34	13,235,241.51	358,815.83	2.71%
	-----	-----	-----	-----
TOTAL EQUITY	132,073,933.93	119,181,626.62	12,892,307.31	10.82%
	=====	=====	=====	=====
TOTAL LIABILITIES & EQUITY	\$ 148,985,104.72	\$ 138,702,670.35	\$ 10,282,434.37	7.41%
	=====	=====	=====	=====

COMPARATIVE STATEMENT OF INCOME

FOR THE PERIOD ENDING 7/31/23

	YEAR TO DATE	PRIOR YEAR TO DATE	\$ CHANGE	% CHANGE
REVENUE				
DOE Subcontracts	\$ 2,925,918.62	\$ 2,453,957.75	\$ 471,960.87	19.23%
Checking Interest	660.83	156.02	504.81	323.55%
Interest Income	19,941.43	9,203.00	10,738.43	116.68%
	-----	-----	-----	-----
TOTAL REVENUE	2,946,520.88	2,463,316.77	483,204.11	19.62%
DIRECT COSTS				
Direct Labor	748,130.45	547,259.58	200,870.87	36.70%
Board of Directors	557.10	594.12	(37.02)	-6.23%
Capital Outlay >\$5K	699,773.04	-	699,773.04	100.00%
Contractual Svcs	349,960.88	585,610.47	(235,649.59)	-40.24%
Inventory	44,779.54	34,446.50	10,333.04	30.00%
Supplies	148,942.10	91,007.61	57,934.49	63.66%
Travel - Domestic	85,674.03	14,303.17	71,370.86	498.99%
Travel - Foreign	5,336.21	2,001.14	3,335.07	166.66%
Utilities	149,012.87	157,292.59	(8,279.72)	-5.26%
Other Direct Costs	4,481.79	1,369.16	3,112.63	227.34%
Unallow/Unbill Costs	24,277.18	27,764.77	(3,487.59)	-12.56%
	-----	-----	-----	-----
TOTAL DIRECT COSTS	2,260,925.19	1,461,649.11	799,276.08	54.68%
INDIRECT COSTS				
Fringe Benefits	734,626.65	535,772.36	198,854.29	37.12%
Overhead	988,512.31	808,241.60	180,270.71	22.30%
	-----	-----	-----	-----
TOTAL INDIRECT COSTS	1,723,138.96	1,344,013.96	379,125.00	28.21%
	-----	-----	-----	-----
GROSS PROFIT/LOSS ()	(1,037,543.27)	(342,346.30)	(695,196.97)	517.81%
	-----	-----	-----	-----
OTHER INCOME				
Water Treatment	25,341.66	21,334.29	4,007.37	18.78%
Miscellaneous Income	4,466.63	9,550.85	(5,084.22)	-53.23%
Other Operating Income	40,045.07	3,197.48	36,847.59	1152.39%
	-----	-----	-----	-----
TOTAL OTHER INCOME	69,853.36	34,082.62	35,770.74	104.95%
OTHER EXPENSES				
Misc. Expenses & Donations	(112,447.60)	(39,382.38)	(73,065.22)	185.53%
Loss (Gain) on Sale of FA	(1,855.00)	(96.07)	(1,758.93)	1830.88%
Other Unallowable Expense	48,039.56	32,361.17	15,678.39	48.45%
Reclass Incr Net Assets	(200,658.17)	(176,483.67)	(24,174.50)	13.70%
	-----	-----	-----	-----
TOTAL OTHER EXPENSES	(266,921.21)	(183,600.95)	(83,320.26)	45.38%
	=====	=====	=====	=====
NET INCOME/LOSS ()	\$ (700,768.70)	\$ (124,662.73)	\$ (576,105.97)	462.13%
	=====	=====	=====	=====

South Dakota Science & Technology Authority
Available Resources
7/31/2023

Cash Total Checking	\$ 3,301,768
Cash With State Treasurer	<u>\$ 23,929,711</u>
Total Cash	\$ 27,231,479
Less: Restricted Funds	
Indemnification/Mine Closure	\$ (9,033,566)
SB35 Appropriation	\$ (12,915,220)
Experiments (Xenon, Interest, Infrastructure)	<u>\$ (594,326)</u>
 Total Cash Available for Infrastructure Upgrades and Authority Operations	 \$ 4,688,367
Plus: Accounts Receivable Billed	\$ 2,174,184
Accounts Receivable Unbilled	\$ 111,404
Less: Current Liabilities (Accounts Payable & Accrued Payroll)	\$ (3,360,216)
Available Cash and Receivables	<u><u>\$ 3,613,739</u></u>

SDSTA Operating Budget Summary FY2024

Actual vs Budget
July 2023 & YTD

	July 2023	Budget	\$ Over/Under Budget	% of Budget	Actual YTD	YTD Budget	\$ Over/Under Budget	% of Budget	% Remaining
									100%
SDSTA (Authority) Direct Charges									
Board of Directors	\$592.00	\$1,500.00	\$908	39.47%	\$592.00	\$1,500.00	\$908	39.47%	60.53%
Executive Office	\$146,338.00	\$88,800.00	(\$57,538)	164.8%	\$146,338.00	\$88,800.00	(\$57,538)	164.80%	-64.80%
Science Center E & O	\$81,972.00	\$76,500.00	(\$5,472)	107.15%	\$81,972.00	\$76,500.00	(\$5,472)	107.15%	-7.15%
SURF Foundation	\$16,775.00	\$25,568.00	\$8,793	65.61%	\$16,775.00	\$25,568.00	\$8,793	65.61%	34.39%
Science Liaison	\$1,042.00	\$0.00	(\$1,042)	100.0%	\$1,042.00	\$0.00	(\$1,042)	NA	NA
SLHVC (Visitor Center)	\$60,311.00	\$55,238.00	(\$5,073)	109.18%	\$60,311.00	\$55,238.00	(\$5,073)	109.18%	-9.18%
Subtotal	\$307,030.00	\$247,606.00	(\$59,424)	124.0%	\$307,030.00	\$247,606.00	(\$59,424)	124.00%	-24.00%
Federal/State Funding - Direct Charges									
Fermi C#671265 Prof. St.Services	\$5,026.00	\$10,910.00	\$5,884	46.07%	\$5,026.00	\$10,910.00	\$5,884	46.07%	53.93%
Fermi C#685922 Op Serv Support	\$0.00	\$0.00	\$0	0.0%	\$0.00	\$0.00	\$0	0.00%	100.00%
Fermi C#674969 Ross Logist.Supp.	\$263,036.00	\$282,106.00	\$19,070	93.24%	\$263,036.00	\$282,106.00	\$19,070	93.24%	6.76%
Office of Science Coop.Agree	\$1,825,212.00	\$1,264,539.00	(\$560,673)	144.34%	\$1,825,212.00	\$1,264,539.00	(\$560,673)	144.34%	-44.34%
Office of Science IIP Projects	\$0.00	\$0.00	\$0	0.0%	\$0.00	\$0.00	\$0	0.00%	0.00%
LBNL LZExp.Operat.C#7650068 & DE-SC0022857	\$71,956.00	\$51,343.00	(\$20,613)	140.15%	\$71,956.00	\$51,343.00	(\$20,613)	140.15%	-40.15%
MJD (Majorana) ORNL144149 & SDSM&T CT001412	\$2,292.00	\$2,035.00	(\$257)	112.63%	\$2,292.00	\$2,035.00	(\$257)	112.63%	-12.63%
* Kiewit/Thyssen/DakotaT.	\$1,525.00	\$1,525.00	\$0	100.0%	\$1,525.00	\$1,525.00	\$0	100.00%	0.00%
* Caterpillar Inc.	\$0.00	\$0.00	\$0	0.0%	\$0.00	\$0.00	\$0	0.00%	100.00%
RESPEC Thermal Breakout	\$0.00	\$83.00	\$83	0.0%	\$0.00	\$83.00	\$83	0.00%	100.00%
Subtotal	\$2,169,047.00	\$1,612,541.00	(\$556,506)	134.51%	\$2,169,047.00	\$1,612,541.00	(\$556,506)	134.51%	-34.51%
Indirect Expenses									
Indirect Charges Personnel	\$400,490.00	\$601,633.00	\$201,143	66.57%	\$400,490.00	\$601,633.00	\$201,143	66.57%	33.43%
Indirect Charges Other	\$637,389.00	\$565,775.00	(\$71,614)	112.66%	\$637,389.00	\$565,775.00	(\$71,614)	112.66%	-12.66%
Subtotal	\$1,037,879.00	\$1,167,408.00	\$129,529	88.9%	\$1,037,879.00	\$1,167,408.00	\$129,529	88.90%	11.10%
Totals	\$3,513,956.00	\$3,027,555.00	(\$486,401)	116.07%	\$3,513,956.00	\$3,027,555.00	(\$486,401)	116.07%	-16.07%
* Private Corporations (Commercial Group)									

Communications Department Photo Appendix C



Top left: Comedian Brian Mallow headlined Neutrino Day 2023.

Top right: Chief Henry Red Cloud and his son on stage at the Opera House for Neutrino Day.

Center left: Neutrino Day volunteers hold a selfie frame for visitors of Neutrino Day.

Center right: Kids and adults visit the many science activities at the Lead Handley Center during Neutrino Day.

Bottom: A group views stamps on their hands, only visible under the official Neutrino Day neutrino detector at the Sanford Lab Homestake Visitor Center.





Top: This aerial shot of the Sanford Lab Homestake Visitor Center (SLHVC) and Open Cut is used in outreach material to promote the SLHVC.

Center left: Jo Orpwood and Julia Delgaudio were featured at an "Ask a Scientist" event at the SLHVC.

Center right: Mariana Pitlick gives a trolley tour to a group of SLHVC patrons.

Bottom: Tom Regan leads an inspection of the 300 Level. The group seen here are members of the Communications team and the Emergency Response Team (ERT).



Modification to LBNF/DUNE Agreement—Mr. Mike Headley

Modification to Memorandum of Understanding between the SDSTA and Fermi Research Alliance (FRA) LLC for the Long-Baseline Neutrino Facility/Deep Underground Neutrino Experiment (LBNF/DUNE).

See suggested motion below.

Recommended Action:

Motion to approve modification to the LBNF/DUNE Lease Agreement between the South Dakota Science and Technology Authority and the United States Department of Energy and authorize the SDSTA Chairperson to sign the Agreement.

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AMENDMENT NO. 4
LAND LEASE
BETWEEN
SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY (SDSTA)
AND
THE UNITED STATES OF AMERICA

THIS AMENDMENT TO LAND LEASE AGREEMENT ("AMENDMENT") is entered into as of September _____, 2023, (the "Amendment Effective Date") for the modification of the Lease by and between the South Dakota Science and Technology Authority, whose address is 630 E. Summit Street, Lead, SD 57754 and whose interest in the property hereinafter described is that of owner for itself, its successors, and assigns, hereinafter called "Lessor", and the UNITED STATES OF AMERICA, hereinafter called "the Government" or "Lessee", acting by and through the Department of Energy ("DOE"), under authority and by virtue of the Atomic Energy Act of 1954, Public Law 83-703, and the Department of Energy Organization Act, Public Law 95-91, as amended, with reference to the following facts:

- A. Lessor and Lessee are parties to that certain Lease dated the 29th day of March 2016, (the "Lease") pursuant to which the DOE leases from Lessor the Premises described in that certain Land Lease.
- B. Lessor and Lessee are parties to that certain Lease Amendment dated the 19th day of July 2017, (the "Amendment No. 1") pursuant to which the DOE leased from Lessor an additional 1,673 gross square feet in the Building Ross Dry Facility on the main floor and in the basement area.
- C. Lessor and Lessee are parties to that certain Lease Amendment dated the 8th day of May 2018, (the "Amendment No. 2") pursuant to which the DOE leased from Lessor an additional 480 gross square feet in the Building Ross Dry Facility on the main floor and 100 gross square feet of adjacent exterior area for outdoor HVAC unit.
- D. Lessor and Lessee are parties to that certain Lease Amendment dated the 9th day of December 2020, (the "Amendment No. 3") pursuant to which the DOE leased from Lessor an additional 9,360 gross square feet identified as the "Machine Shop" located near the Governor's Corner at the 4850 Level of the Ross Campus.

- E. Lessee desires to lease additional square footage in the Building Ross Dry Facility on the main floor and in the basement area. Total lease square footage, inclusive of the additional square footage subject to this Amendment is identified in Exhibit A, attached hereto and made a part hereof, and defined as follows:
1. Amending the total gross square footage in the Building Ross Dry Facility to 5,774 gross square feet;
 2. Adding an easement area consisting of 595 square feet west of the Building Ross Dry Facility for American Disabilities Act ("ADA") ramp;
 3. Adding an easement area consisting of 615 square feet east of the Building to allow for the HVAC structure; and,
 4. Clarifying and identifying the common space areas.
- F. Lessor and Lessee agree to the following modifications to the locker room located on the main floor of the Building Ross Dry Facility as follows:
1. Lessee will adjust walls within locker room;
 2. Lessor will manage all work inside locker room area; and,
 3. No modifications will be made to restrooms located within the Building Ross Dry Facility.
- G. Lessor has no present need for the additional space and supports the Lessee's desire for additional space in support of the Long Baseline Neutrino Facility.

NOW, THEREFORE, in consideration of the above recitals which by this reference are incorporated herein, the mutual covenants and conditions contained herein and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lessor and DOE agree as follows:

1. Paragraph A - Premises of the Lease is hereby amended to include additional space located in the Building Ross Dry Facility at the Ross Complex of the Homestake Mine in Lead, SD, as outlined in Exhibit A, attached hereto and made a part hereof, and described below:
 - a) Total area consisting of approximately 3,777 gross square feet located on the main floor of the Building Ross Dry Facility;
 - b) Total area consisting of approximately 1,997 gross square feet located in the basement of the Building Ross Dry Facility;
 - c) Easement areas outside of the Building Ross Dry Facility consisting of 595 gross square feet to the west and 615 gross square feet to the east; for a total easement area of 1,997 gross square feet; and,
 - d) Identification of Common space areas of the Building Dry Ross Facility.

2. Except as expressly amended, modified, or changed herein, all of the terms, conditions and covenants of the Lease shall remain in full force and effect, and Lessor and Lessee hereby ratify and reaffirm such terms, conditions and covenants and shall be bound thereby.

IN WITNESS WHEREOF, the parties have caused this Amendment No. 4 to Lease as of the date first written above.

SOUTH DAKOTA SCIENCE AND
TECHNOLOGY AUTHORITY

UNITED STATES OF AMERICA
DEPARTMENT OF ENERGY



By: _____
Casey C. Peterson
Title: Board Chairperson

By: _____
Laura I. Troche
Title: Real Estate Contracting Officer

Date: _____

Date: _____

CORPORATE CERTIFICATE

I, Casey C. Peterson, certify that I am the Chairman of the Board of the South Dakota Science and Technology Authority, a body corporate and politic, named as Lessor in the attached Amendment No. 4 to Land Lease; that I duly signed said lease on behalf of the Lessor, by authority of its governing body, and is within the scope of its powers.

In certification thereof, I have hereunto affixed my hand this _____ day of _____, 2023.

Casey C. Peterson, Board Chairman
South Dakota Science and Technology Authority

None
(SEAL)

Subscribed and sworn to before me this ____ day of _____, 2023.

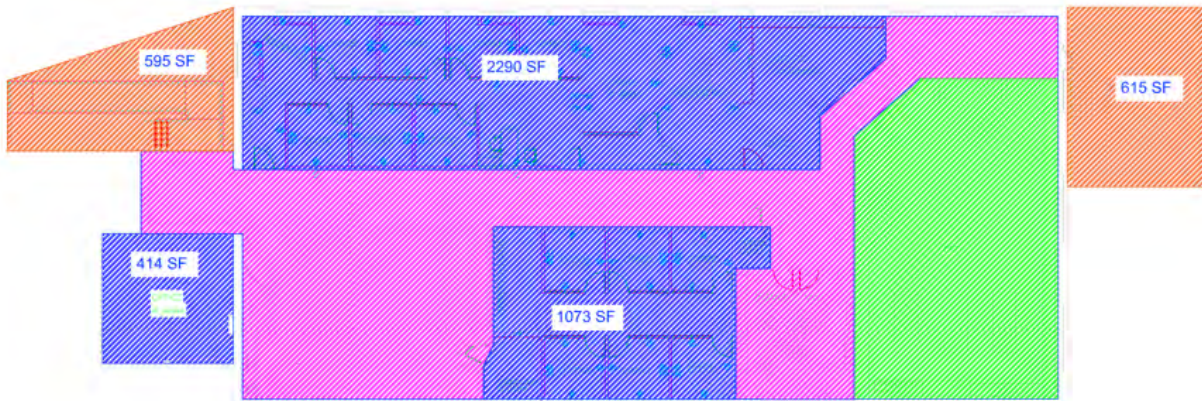
Notary Public in and for the State of South Dakota

My commission expires: _____.

AMENDMENT NO. 4 - EXHIBIT A

Total leased/controlled areas pursuant to Amendment No. 4

Leased Area: 5,774 gross square feet



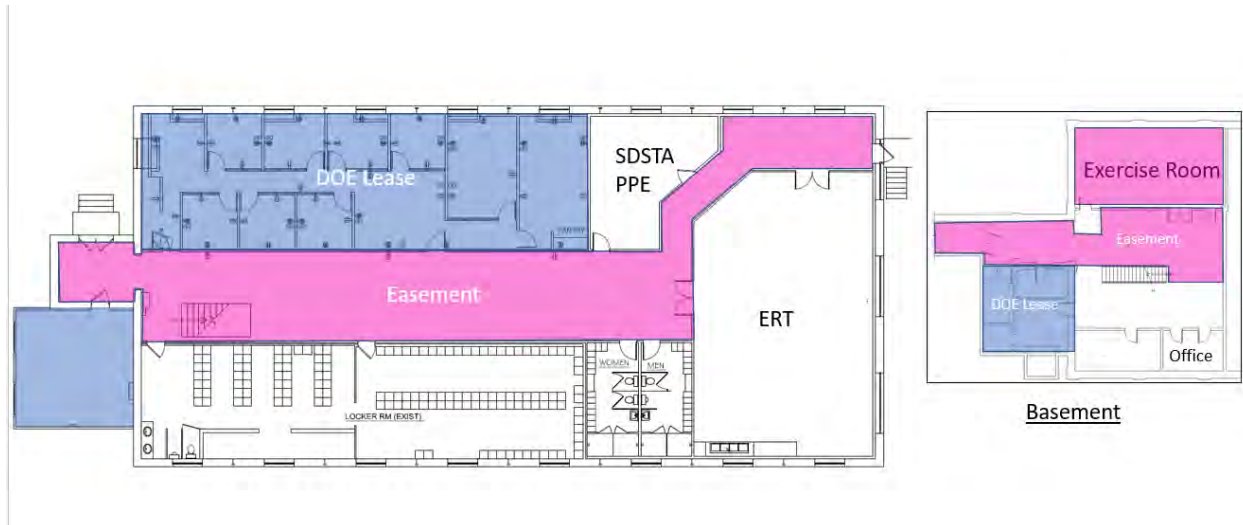
Ross Dry Main Floor



Ross Dry Basement



FOR CLARIFICATION PURPOSES ONLY, the Building Ross Dry Facility space leased prior to Supplemental No. 4 was as follows:



Amended MOU between SDSTA and FRA for LBNF/DUNE—Mr. Mike Headley

Amended Memorandum of Understanding between the SDSTA and Fermi Research Alliance (FRA) LLC for the Long-Baseline Neutrino Facility/Deep Underground Neutrino Experiment (LBNF/DUNE).

See suggested motion below.

Recommended Action:

Motion to approve the Memorandum of Understanding between SDSTA and FRA as amended and authorize the SDSTA Executive Director to sign the MOU.

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Executive Session—Chairperson Casey Peterson

Meeting closed to public during executive session—*see recommended motion below.*

Recommended Action:

Motion to enter executive session to discuss personnel matters and to consult with legal counsel concerning contractual and legal matters—SDCL 1-25-2(1), (3) and (4); 19-19-502.

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Report from Executive Session—Chairperson Casey Peterson

See recommended motion below.

Recommended Action:

“The board consulted with legal counsel concerning contractual and legal matters. No action was taken.”

OR

...as discussed and stated otherwise

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Confirm date and time of next meeting—Chairperson Casey Peterson

The next board meeting will be held on Thursday, December 14 beginning at 9:00 AM (Mountain Time), tbc.

2023
Regular Quarterly Board Meeting Schedule
8:00 AM (Mountain Time)
Thursday, March 16
Thursday, June 22—Annual Mtg
Thursday, September 21 (Sioux Falls, Washington Pavilion)
9:00 a.m. (MT) Thursday, December 14 (Elevate RC)

*South Dakota Science and Technology Authority / Sanford Underground Research Facility
Education & Outreach Building (large conference room and zoom)
630 E. Summit Street
Lead, SD 57754
Questions? Contact Mandy Knight, mknight@sanfordlab.org
Direct Line: 605.722.4022, Mobile: 605.641.0475*

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Public Comments—Chairperson Casey Peterson

Reminder to ask guests who did not identify themselves at the beginning of the meeting to do so at this time.

Discuss any public comment request forms submitted.

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Board Comments—Chairperson Casey Peterson

1. Dr. Ani Aprahamian
2. Mr. Dana Dykhouse, Vice-Chairperson
3. Dr. Chris Fall
4. Ms. Pat Lebrun, Secretary-Treasurer
5. Mr. Roger Musick
6. Mr. Ron Wheeler
7. Dr. Laurie Nichols, Ex-officio member
8. Dr. Jim Rankin, Ex-officio member
9. Mr. Casey Peterson, Chairperson

Recommended Action:

None.

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Adjourn—Chairperson Casey Peterson

Adjourn board meeting—*see recommended motion below.*

Recommended Action:
Motion to adjourn.

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