



AGENDA MATERIALS
TRI-DAM PROJECT



TRI-DAM POWER
AUTHORITY



BOARD MEETING

December 19, 2024

**REGULAR BOARD MEETING
AGENDA
TRI-DAM PROJECT
of THE OAKDALE IRRIGATION DISTRICT and
THE SOUTH SAN JOAQUIN IRRIGATION DISTRICT
DECEMBER 19, 2024
9:00 A.M.**

**South San Joaquin Irrigation District
11011 Highway 120
Manteca, CA 95336**

A COMPLETE COPY OF THE AGENDA PACKET WILL BE AVAILABLE ON THE TRI-DAM PROJECT WEB SITE (www.tridamproject.com) ON MONDAY, DECEMBER 18, 2024 AT 9:00 A.M. ALL WRITINGS THAT ARE PUBLIC RECORDS AND RELATE TO AN AGENDA ITEM WHICH ARE DISTRIBUTED TO A MAJORITY OF THE BOARD OF DIRECTORS LESS THAN 72 HOURS PRIOR TO THE MEETING NOTICED ABOVE WILL BE MADE AVAILABLE ON THE TRI-DAM PROJECT WEB SITE (www.tridamproject.com).

Members of the public who wish to attend and participate in the meeting remotely, as opposed to in-person, can do so via internet at <https://ssjid.zoom.us/j/98120276218> or by telephone, by calling 1 (669) 900-6833, Meeting ID: 981-2027-6218, Password: 700546. All speakers commenting on Agenda Items are limited to five (5) minutes.

Members of the public may also submit public comments in advance by e-mailing gmodrell@tridamproject.com by 3:00 p.m., Wednesday, December 18, 2024.

In compliance with the Americans with Disabilities Act, a person requiring an accommodation, auxiliary aid, or service to participate in this meeting should contact the Executive Assistant at (209) 965-3996 ext. 113, as far in advance as possible but no later than 24 hours before the scheduled event. Best efforts will be made to fulfill the request.

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL: John Holbrook, David Roos, Glenn Spyksma, Billy Van Ryn, Mike Weststeyn
Brad DeBoer, Jacob DeBoer, Herman Doornenbal, Tom Orvis, Ed Tobias

PUBLIC COMMENT

CONSENT CALENDAR

ITEMS 1 - 3

1. Approve the Regular Board Meeting Minutes of November 21, 2024

2. Approve the Treasurer's Report and Financial Statements for the ten months ending October 31, 2024
 3. Approve the November 2024 Statement of Obligations
-

ACTION CALENDAR

ITEMS 4 – 8

4. Consider adoption of Resolution TDP 2024-10 for US Bureau of Reclamation Notice of Funding Opportunity No. R24AS00329 Central Valley Project Fish Information Needs
 5. Consider adoption of proposed 2025 budget
 6. Consider authorization of an internal inspection of the Tulloch main transformer
 7. Consider SCADA server replacement
 8. Consider approval of annual membership in CEATI Hydropower Plant Equipment Interest Group
-

DISCUSSION

ITEM 9

9. Presentation and discussion regarding Canyon Tunnel 95% design progress and final design proposal
-

COMMUNICATIONS

ITEMS 10 - 13

10. Staff reports as follows:
 - a. General Manager Report
 - b. Operations & Maintenance Report
 - c. Compliance Report
 11. Generation Report
 12. Fisheries studies on the Lower Stanislaus River
 13. Directors' Comments
-

CLOSED SESSION

ITEM 14

14. a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION
Government Code § 54956.9(d)(1)
 1. *Threfall Ranch L.P. v. Oakdale Irrigation District, South San Joaquin Irrigation District, and DOES 1 through 50, inclusive*
Superior Court of California, County of Stanislaus
Case No. CV-24-006033
 2. *San Joaquin Tributaries Authority, et al v. California State Water Resources Control Board*
County of Sacramento Superior Court
Case No. JCCP 5013
- b. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION
Significant Exposure to Litigation

Government Code §54956.9(d)(2)

Two (2) Cases

- c. CONFERENCE WITH REAL PROPERTY NEGOTIATOR
Government Code §54656.8
Property: Canyon Tunnel
Agency Negotiator: SSJID General Manager
Negotiating Parties: Mangante, Rancheria Del Rio Estanislau, LLC
Under Negotiation: Price and Terms of Payment of Sale

 - d. PUBLIC EMPLOYEE PERFORMANCE EVALUATION
Government Code § 54957(b)(1)
Title: General Manager
-

ADJOURNMENT

ITEM 15

- 15. Adjourn to the next regularly scheduled meeting

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Genna Modrell

SUBJECT: Tri-Dam Project November 2024 Minutes

RECOMMENDED ACTION: Approve the regular board meeting minutes of November 21, 2024.

BACKGROUND AND/OR HISTORY:

Draft minutes attached.

FISCAL IMPACT: None

ATTACHMENTS: Draft minutes attached.

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

**TRI-DAM PROJECT
MINUTES OF THE JOINT BOARD
OF DIRECTORS REGULAR MEETING**

November 21, 2024
Oakdale, California

The Joint Boards of Directors of the Oakdale Irrigation District and the South San Joaquin Irrigation District met in joint session at the office of Oakdale Irrigation District in Oakdale, California, on the above date for the purpose of conducting business of the Tri-Dam Project, pursuant to the resolution adopted by each of the respective Districts on July 29, 1955.

President Orvis called the meeting to order at 9:01 a.m.

OID DIRECTORS

SSJID DIRECTORS

DIRECTORS PRESENT:

ED TOBIAS
HERMAN DOORNENBAL
BRAD DEBOER

DAVID ROOS
DAVE KAMPER
MIKE WESTSTEYN
JOHN HOLBROOK

Also Present:

Summer Nicotero, General Manager, Tri-Dam Project; Genna Modrell, Executive Asst., Tri-Dam Project; Alex Brown, O & M Manager, Tri-Dam Project; Scot Moody, General Manager, OID; Sharon Cisneros Chief Financial Officer, OID; Forrest Killingsworth, Engineering Manager, SSJID; Katie Patterson, Public & Govt. Relations, SSJID; Tara Maloli, CV Strategies; Mia Brown, Legal Counsel, SSJID

PUBLIC COMMENT

None.

CONSENT CALENDAR

- ITEM #1 Approve the special board meeting minutes of October 17, 2024**
- ITEM #2 Approve the Treasurer's Report and Financial Statements for the seven months ending September 30, 2024**
- ITEM #3 Approve the October statement of obligations**

Director Roos noted a correction to the minutes, item #5 Doornenbal and Roos voted no.

Director DeBoer moved to approve items one, two, and three with the noted correction. Director Weststeyn seconded the motion.

The motion passed by the following roll call vote:

AYES: DeBoer, Orvis, Tobias, Holbrook, Roos, Kamper, Weststeyn

NOES: None

ABSTAINING: None

ABSENT: Santos, Spyksma, Doornenbal

ACTION CALENDAR

ITEM #4 Consider approval of the 2025 Board Meeting Schedule

Summer presented the 2025 board meeting schedule and noted three months reflecting a potential location change.

Director Weststeyn moved to approve as presented. Director Tobias seconded the motion.

The motion passed by the following roll call vote:

AYES: DeBoer, Orvis, Tobias, Holbrook, Roos, Kamper, Weststeyn

NOES: None

ABSTAINING: None

ABSENT: Santos, Spyksma, Doornenbal

ITEM #5 Consider approval of revisions to the Employee Handbook to align with the approved IBEW 1245 Memorandum of Understanding

Summer Nicotero summarized the financial impact related to the proposed benefits, aligning benefits for all staff.

Director Tobias moved to approve as presented. Director Roos seconded the motion.

The motion passed by the following roll call vote:

AYES: DeBoer, Orvis, Tobias, Holbrook, Kamper, Roos, Weststeyn

NOES: None

ABSTAINING: None

ABSENT: Santos, Spyksma, Doornenbal

Director Doornenbal arrived at 9:10 am

ITEM #6 Consider approval to purchase a Fire Suppression Trailer

Summer presented the fire suppression trailer and provided background on the existing equipment and responded to Director questions. Director DeBoer questioned the need for staff training.

Director Holbrook moved to approve as presented. Director Tobias seconded the motion.

The motion passed by the following roll call vote:

AYES: DeBoer, Doornenbal, Orvis, Tobias, Holbrook, Kamper, Roos, Weststeyn

NOES: None

ABSTAINING: None

ABSENT: Santos, Spyksma

ITEM #7 Consider adoption of Resolution TDP 2024-09 Commemorating the Service of Dave Kamper

Summer Nicotero and President Orvis read aloud the memorandum and resolution commending Dave for his twenty-seven years of service and congratulating him on his retirement.

Director Holbrook moved to approve as presented. Director Doornenbal seconded the motion.

The motion passed by the following roll call vote:

AYES: DeBoer, Doornenbal, Orvis, Tobias, Holbrook, Roos, Weststeyn

NOES: None

ABSTAINING: Kamper
ABSENT: Santos, Spyksma

ITEM #8 Preliminary 2025 Budget

Summer Nicotero provided a summary of the preliminary 2025 budget explaining the methodology and responded to Director questions.

ITEM #9 Canyon Tunnel Community Outreach Effort

Katie Patterson with Tara Maloli, CV Strategies provided an update regarding the Knights Ferry community focus group held on October 29, 2024 and summarized the project cost analysis. 32 residents and community members were in attendance. Following that meeting, the Schell Road residents requested their own focus group to provide feedback for our upcoming outreach initiatives. Separately, SSJID leadership met with County of Stanislaus representatives for additional insight.

COMMUNICATIONS

ITEM #10 Staff Reports:

- A. General Manager, Summer Nicotero
 - Summer provided more detailed information on the Part 12D requirements changing to a 10-year comprehensive and alternating 10-year periodic inspection and responded to Director questions.
- B. Operations & Maintenance Report, Alex Brown
 - No discussion.
- C. Compliance Report, Tracey McKnight
 - No discussion.

ITEM #11 Generation Report

No discussion.

ITEM #12 Fisheries Studies on the Lower Stanislaus River

No discussion.

ITEM #13 Directors Comments

Director Kamper thanked everyone for their support, he will miss everyone and will be available for consultation.

Director Tobias thanked Summer and staff for the hard work.

Director DeBoer thanked Summer and staff and stated he appreciated Dave Kamper's knowledge and history.

Director Holbrook thanked Summer and all staff.

Director Roos thanked Summer for the hard work and Happy Thanksgiving.

Director Doornenbal thanked Summer and staff and congratulated Dave Kamper on his retirement. "You never cease to amaze me with your knowledge of the Project."

Director Weststeyn thanked Summer and staff, and Director Santos and Kamper for their service.

Director Orvis thanked Director Santos for her service. I looked forward to a quip from Dave Kamper and bringing the historical reference.

President Orvis took a 5 minute break at 10:25 a.m. before recessing to the Tri-Dam Power Authority Board of Commissioners meeting.

The Tri-Dam Project meeting resumed at 10:40 a.m. after the Tri-Dam Power Authority meeting adjourned.

President Orvis announced before closed session that the following items would be discussed.

The Board took a brief recess at 10:40 a.m. and convened to Closed Session at 10:45 a.m.

ITEM #14 Closed Session

- 14. a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION
Government Code § 54956.9(d)(1)
 - 1. *Lee Tyler et al. v. Oakdale Irrigation; et al.*
Calaveras Superior Court Case No. 17CV42319
 - 2. *Vera Whittenburg v. Tri-Dam Project, Oakdale Irrigation District, South San Joaquin Irrigation District*
County of San Joaquin Superior Court
Case No. STK-CV-UWT-2023-0013574
 - 3. *Threfall Ranch L.P. v. Oakdale Irrigation District, South San Joaquin Irrigation District, and DOES 1 through 50, inclusive*
Superior Court of California, County of Stanislaus
Case No. CV-24-006033
 - 4. *San Joaquin Tributaries Authority, et al v. California State Water Resources Control Board*
County of Sacramento Superior Court
Case No. JCCP 5013
- b. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION
Significant Exposure to Litigation
Government Code §54956.9(d)(2)
Two (2) Cases
- c. CONFERENCE WITH REAL PROPERTY NEGOTIATOR
Government Code §54656.8
Property: Canyon Tunnel
Agency Negotiator: SSJID General Manager
Negotiating Parties: Mangante, Rancheria Del Rio Estanislus, LLC
Under Negotiation: Price and Terms of Payment of Sale

At the hour of 11:22 a.m., the Board reconvened to open session.

Disclosure of reportable actions taken in Closed Session, pursuant to Government Code Section 54957.1: There were no reportable actions taken in closed session.

ADJOURNMENT

President Orvis adjourned the meeting at: 11:22 a.m.

The next regular board meeting is scheduled for December 19, 2024, at the offices of South San Joaquin Irrigation District beginning at 9:00 a.m.

ATTEST:

Summer Nicotero, Secretary
Tri-Dam Project

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Sharon Cisneros

SUBJECT: Tri-Dam Project Treasurer's Report and Financial Statements for the Ten Months ending October 31, 2024

RECOMMENDED ACTION: Approve the Treasurer's Report and Financial Statements for the Ten Months ending October 31, 2024

BACKGROUND AND/OR HISTORY:

The Tri-Dam Project (TDP) Treasurer's report provides the total Treasury Funds as of October 31, 2024. The month ended with \$15.0 million in funds invested at US Bank and LAIF and \$18.0 million in operating cash.

As of the financial statement date of October 31, 2024, the TDP has realized 120.5% of its year-to-date budgeted operating revenues for 2024 and utilized 88.4% of its budgeted operating expenses. Additional Information is provided within the attached reports.

FISCAL IMPACT: none

ATTACHMENTS:

- Treasurer's Report
- Financial Statements 10/31/2024 (unaudited)

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

**TREASURER'S REPORT TO THE BOARD OF DIRECTORS
 TRI-DAM PROJECT
 STATEMENT OF FUNDS
 FOR THE PERIOD ENDING OCTOBER 31, 2024**

ACCOUNTS	10/31/2024	RATE	9/30/2024	NET CHANGE
LAIF	\$7,139,007	1.71%	\$7,055,338	\$83,669.00
OVBC ACCOUNTS	\$18,078,616		\$18,499,615	(420,998.65)
US BANK -REVENUE OPERATING FUND	\$7,825,755	4.91%	\$7,821,274	4,481.00
<i>TOTAL TREASURY FUNDS</i>	<u>33,043,378</u>		<u>\$33,376,227</u>	<u>(332,848.65)</u>



Tri-Dam Project

Statement of Net Position

October 31, 2024 and 2023
(unaudited)

	<u>2024</u>	<u>2023</u>
Assets		
1 Cash	\$ 18,079,016	\$ 20,523,500
2 Investment Securities & Money Market	14,964,762	14,249,414
3 Accounts Receivable	7,688,256	4,645,623
4 Due from Tri-Dam Power Authority	37,400	48,411
5 Prepaid Expenses	854,693	718,971
6 Capital Assets	118,680,371	117,987,012
7 Accumulated Depreciation	(59,932,679)	(57,965,454)
8 Intangible Assets	8,213,938	8,213,938
9 Accumulated Amortization - Intangibles	(3,285,931)	(3,032,938)
10 Deferred Outflows - Pension Related	1,792,007	2,064,993
11 Total Assets & Deferred Outflows	<u>107,091,833</u>	<u>107,453,470</u>
Liabilities		
12 Accounts Payable	300,778	53,286
13 Deposits	84,000	65,000
14 Other Current Liabilities	124,744	117,044
15 Long-Term Liabilities	578,614	675,543
16 Net Pension Liability	3,985,887	3,635,864
17 Deferred Inflows - Pension & Leases	385,796	838,658
18 Total Liabilities & Deferred Inflows	<u>5,459,819</u>	<u>5,385,395</u>
Net Position		
19 Net Position - Beginning of Year	104,677,763	89,023,629
20 Distributions	(32,884,000)	(24,740,000)
21 YTD Net Revenues	29,838,251	37,784,445
22 Total Net Position	<u>101,632,014</u>	<u>102,068,074</u>
23 Total Liabilities and Net Position	<u>\$ 107,091,833</u>	<u>\$ 107,453,469</u>



Tri-Dam Project

Statement of Revenues and Expenses

Month to Date for October 31, 2024

	MTD Budget	MTD Actual	MTD Budget Variance	Budget Variance %	Prior Year Actual	Prior Year Variance	Prior Year Variance %
1 Operating Revenues							
2 Power Sales	\$ 2,741,667	\$ 1,858,168	\$ (883,499)	-32.2%	\$ 2,376,552	\$ (518,384)	-21.8%
3 Headwater Benefit	34,666.67	-	(34,667)	-100.0%	-	-	0.0%
4 Total Operating Revenues	2,776,333	1,858,168	(918,165)	-33.1%	2,376,552	(518,384)	-22%
5							
6 Operating Expenses							
7 Salaries and Wages	232,969	187,074	(45,895)	-19.7%	137,226	49,848	36.3%
8 Benefits and Overhead	154,605	108,955	(45,650)	-29.5%	137,022	(28,067)	-20.5%
9 Operations	102,763	57,842	(44,921)	-43.7%	17,126	40,716	237.7%
10 Maintenance	155,417	123,134	(32,283)	-20.8%	100,580	22,554	22.4%
11 General & Administrative	252,292	100,298	(151,994)	-60.2%	111,228	(10,930)	-9.8%
12 Depreciation & Amortization	194,250	197,461	3,211	1.7%	168,007	29,454	17.5%
13 Total Operating Expenses	1,092,294	774,764	(317,530)	-29.1%	671,189	103,575	15%
14							
15 Net Income From Operations	1,684,039	1,083,404	(600,635)	-35.7%	1,705,363	(621,959)	-36.5%
16							
17 Nonoperating Revenues (Expenses)							
18 Grant Revenue	-	330,000	330,000	100.0%	-	330,000	0.0%
19 Investment Earnings (Expenses)	26,167	112,173	86,006	328.7%	42,386	69,787	164.6%
20 Tulloch Encroachment Permits	-	2,250	2,250	0.0%	7,800	(5,550)	-71.2%
21 Water Sales	16,667	-	(16,667)	-100.0%	-	-	0.0%
22 Rental Income	8,333	3,000	(5,333)	-64.0%	328	2,672	814.6%
23 Gain/(Loss) on Asset Disposal	-	-	-	0.0%	-	-	0.0%
24 Operating Cost Recovery	145,833	-	(145,833)	-100.0%	-	-	0.0%
25 Other Nonoperating Revenue	750	1,993	1,243	165.7%	1,618	375	23.2%
26 Total Nonoperating Revenues (Expenses)	197,750	449,416	251,666	127.3%	52,132	397,284	762%
27							
28 Net Revenues	\$ 1,881,789	\$ 1,532,820	\$ (348,969)	-19%	\$ 1,757,495	\$ (224,675)	-12.8%



Tri-Dam Project

Statement of Revenues and Expenses

Year to Date for the Period Ending October 31, 2024

	YTD Budget	YTD Actual	YTD Budget Variance	Budget Variance %	Prior Year Actual	Prior Year Variance	Prior Year Variance %
1 Operating Revenues							
2 Power Sales	\$ 27,416,667	\$ 39,707,746	\$ 12,291,079	44.8%	\$ 44,606,905	\$ (4,899,159)	-11.0%
3 Headwater Benefit	346,667	437,777	91,110	26.3%	270,000	167,777	62.1%
4 Total Operating Revenues	27,763,333	40,145,523	12,382,190	44.6%	44,876,905	(4,731,382)	-11%
5							
6 Operating Expenses							
7 Salaries and Wages	2,329,687	1,726,068	(603,619)	-25.9%	1,639,714	86,354	5.3%
8 Benefits and Overhead	1,546,047	1,466,341	(79,706)	-5.2%	1,362,454	103,887	7.6%
9 Operations	1,027,625	1,126,287	98,662	9.6%	749,185	377,102	50.3%
10 Maintenance	1,554,167	2,226,668	672,501	43.3%	590,198	1,636,470	277.3%
11 General & Administrative	2,522,917	3,067,956	545,039	21.6%	1,948,559	1,119,397	57.4%
12 Depreciation & Amortization	1,942,500	1,974,610	32,110	1.7%	1,855,219	119,391	6.4%
13 Total Operating Expenses	10,922,942	11,587,930	664,988	6.1%	8,145,329	3,442,601	42%
14							
15 Net Income From Operations	16,840,392	28,557,593	11,717,201	69.6%	36,731,576	(8,173,983)	-22.3%
16							
17 Nonoperating Revenues (Expenses)							
18 Grant Revenue	-	330,000	330,000	0.0%	-	330,000	
19 Investment Earnings (Losses)	261,667	656,062	394,395	150.7%	528,802	127,260	24.1%
20 Tulloch Encroachment Permits	20,833	13,700	(7,133)	-34.2%	30,200	(16,500)	
21 Water Sales	166,667		(166,667)	-100.0%	150,000	(150,000)	-100.0%
22 Rental Income	83,333	27,546	(55,787)	-66.9%	95,147	(67,601)	-71.0%
23 Gain/(Loss) on Asset Disposal	-	31,150	31,150	0.0%	51,437	(20,287)	-39.4%
24 Operating Cost Recovery	1,458,333	210,199	(1,248,134)	-85.6%	189,700	20,499	10.8%
25 Other Nonoperating Revenue	7,500	12,001	4,501	60.0%	7,583	4,418	58.3%
26 Total Nonoperating Revenues (Expenses)	1,998,333	1,280,658	(717,675)	-35.9%	1,052,869	227,789	22%
27							
28 Net Revenues	\$ 18,838,725	\$ 29,838,251	\$ 10,999,526	58%	\$ 37,784,445	\$ (7,946,194)	-21.0%

**Tri-Dam Project
Capital Expenditures
2024 Budget to Actuals**

Expenditure	2024 Amended Budget	2024 Actual YTD Expenditures	Remaining Budget
16 Cyberlock Project	45,000	-	45,000
17 Lowe Boat Motor Replacement	11,191	11,229	(38)
20 Controls Network Switches Upgrade	50,000	37,175	12,825
21 Tulloch Powerhouse Control Room HVAC	12,000	10,696	1,304
23 Upgrade SCADA RTU / RTAC/ RTU Migration	60,000	20,598	39,402
24 Beardsley Dam Gate 1 Trunnion Pin Repair (Amd 10/17)	332,000	325,424	6,576
25 Division Tower and Comm site install	400,000		400,000
26 O'Byrnes (Tulloch) Recreation Site	100,000		100,000
27 Tulloch skimmer Gate actuator	50,000		50,000
28 Donnells Solar Power Supply (engineering, etc.)	100,000		100,000
29 Equipment-Manlift	150,000		150,000
30 Tulloch Shoreline Erosion Project- Site #3	800,000		800,000
31 Tulloch Spillway	350,000	54,487	295,513
32 Tulloch Barge Removal	20,000		20,000
33 Electric Operators for shop doors	15,000		15,000
34 EGEN Replacement-Donnells	3,000	7,925	(4,925)
35 Beardsley Meters Upgrade	40,000	9,967	30,033
36 Tulloch Meters Upgrade	40,000	9,967	30,033
37 EGEN Replacement-OID/SSJID Division Point (Amd 10/17)	80,900	-	80,900
38 High Bay LED Lighting	48,000		48,000
39 Sonora Headquarters	2,000,000	9,790	1,990,210
41 Renovate BPH Kitchen	6,000		6,000
42 Replace 12-1 4x4 Pickup	55,000	49,436	5,564
43 Replace 13-2 4x4 Pickup	55,000	49,436	5,564
45 Tulloch 1 and 2 Gateshaft Gov retrofit	300,000	16,429	283,571
46 Path Boxes to align microwave dishes	25,000		25,000
47 Beardsley Lathe Refurbishment	10,000		10,000
48 Exciter/Bridge Replacement	400,000		400,000
49 Halatron Fire extinguishes for control/MCC all locations	10,000		10,000
50 Fire supression trailer (Water Buffalo)	14,000		14,000
51 Tulloch PLC Screens, Processor, and I/O Module	40,000		40,000
52 Radio and dish replacement DDM to SPK Link	60,000	11,816	48,184
53 Radio and dish replacement Mt Liz to Division Link	60,000	11,816	48,184
54 Radio and dish replacement Tulloch to Goodwin	60,000	11,816	48,184
55 Convault Fuel Containment	10,000		10,000
56 Quincy Rotary Screw Air Compressor (2 units)	30,000	35,116	(5,116)
57 Tulloch GSU work, Drain Filter repair	200,000		200,000
58 GraphEX-OI interface TPH 1 &2	40,000		40,000
59 Carbon Dust Collection System (Amd 4/18/24)	60,000		60,000
60 Megger Insulation Resistance Tester (Amd 1/18/24)	9,600	9,438	162
61 Donnells Powerhouse Fire Hydrant (Amd 9/19)	8,000	15,874	(7,874)
Total Capital	6,159,691	708,435	5,451,256

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Genna Modrell

SUBJECT: Tri-Dam Project November Statement of Obligations

RECOMMENDED ACTION: Approve the November 2024 Statement of Obligations.

BACKGROUND AND/OR HISTORY:

Submitted for approval is the November Statement of Obligations for Tri-Dam Project.

FISCAL IMPACT: See Attachments

ATTACHMENTS: Tri-Dam Project Statement of Obligations

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

Tri-Dam Project

Statement of Obligations

Period Covered

November 1, 2024 to November 30, 2024

TRI-DAM PROJECT
STATEMENT OF OBLIGATIONS

Period Covered
November 1, 2024 to November 30, 2024

One-Half Oakdale Irrigation District	\$ 401,198.26
One-Half South San Joaquin Irrigation District	\$ 401,198.27
Total Obligations	<u>\$ 802,396.53</u>

CERTIFICATION

OAKDALE IRRIGATION DISTRICT

SOUTH SAN JOAQUIN IRRIGATION DISTRICT

Brad DeBoer

John Holbrook

Jacob DeBoer

David Roos

Herman Doornenbal

Glenn Spyksma

Thomas D. Orvis

Billy Van Ryn

Ed Tobias

Mike Weststeyn

Each of the undersigned certifies that he is President or Secretary of his respective District;
That the amounts designated above have been properly incurred as an obligation of the Tri-Dam Project; that
checks for payment of said amounts have been drawn on a Tri-Dam Project account at Oak Valley Community
Bank, Sonora, California.

**OAKDALE IRRIGATION DISTRICT
PRESIDENT,**

**SOUTH SAN JOAQUIN IRRIGATION DISTRICT
PRESIDENT,**

Thomas D. Orvis

Glenn Spyksma

SECRETARY,

SECRETARY,

Scot A. Moody

Date

Peter M. Rietkerk

Date

Tri-Dam Project Statement of Obligations

Period Covered

From To

November 1, 2024 to November 30, 2024

<u>Vendor Check Register Report</u>	<u>No. Chks.</u>		<u>Amount</u>
(Please see attached Check Listing)	96	\$	565,674.39

Payrolls - Net Charges

<u>Pay Date</u>	<u>Type</u>	<u>Payroll Amount</u>	
7-Nov-24	Payroll	\$ 116,031.40	
21-Nov-24	Payroll	\$ 120,690.74	
Total Net Payroll		\$ 236,722.14	
Total Disbursements for the Period			\$ 802,396.53

District Portion~		
Oakdale Irrigation District	\$	401,198.26
South San Joaquin Irrigation District	\$	401,198.27
Total Districts	\$	802,396.53

Project

November Checks



Check Number	Vendor No	Vendor Name	Check Date	Description	Amount
ACH	11346	MersenUSA PTT Corp.	11/25/2024	Donnells Brush System	56,283.20
ACH	10815	Cal PERS System	11/07/2024	EE/ER Retirement	20,719.83
ACH	11553	Iron Age Office, LLC	11/26/2024	Office Furniture Deposit - Sonora	7,387.54
131420	11511	Amazon Capital Services, Inc.	11/04/2024		686.61
131421	11457	AT&T - CalNet	11/04/2024		267.85
131422	10068	AT&T Corp - Data Link	11/04/2024		323.34
131423	11428	Boutin Jones Inc.	11/04/2024	Professional Services for Aug. & Sept 2024	6,362.00
131424	10184	Clark Pest Control of Stockton Inc.	11/04/2024		225.00
131425	10204	Consolidated Electrical Dist.	11/04/2024	electrical supplies for TPH Gov. upgrade	4,887.42
131426	10227	Del Oro Water Co. Inc.	11/04/2024		847.24
131427	10245	Doherty Tire of Sonora Inc.	11/04/2024	M/S Tires	4,787.81
131428	11233	Fibrobec, Inc.	11/04/2024		154.51
131429	10568	George Reed Inc.	11/04/2024	Road Base	6,169.26
131430	11169	Liebert Cassidy Whitmore	11/04/2024		149.05
131431	10439	McMaster-Carr Supply Co.	11/04/2024		710.19
131432	11494	Megger Systems & Services, Inc.	11/04/2024		319.50
131433	10466	Mountain Oasis Purified Water LLC	11/04/2024		301.50
131434	10547	Power Plan	11/04/2024		764.36
131435	11414	Provost & Pritchard	11/04/2024	Support Services	1,068.72
131436	10933	Smile Business Products	11/04/2024		187.64
131437	10183	Cal PERS S457 Plan	11/14/2024	EE/ER Retirement	1,791.03
131438	10811	IBEW	11/14/2024	EE Union Dues	1,432.81
131439	10812	Nationwide Retirement Solution	11/14/2024	EE/ER Retirement	8,225.84
131440	10013	Acme Rigging and Supply Co. Inc.	11/14/2024	Snow Chains F450	1,127.67
131441	11475	Alley Tree & Landscape	11/14/2024	Sonora/Tulloch Day Use - Landscaping & Janitorial	6,200.00
131442	11511	Amazon Capital Services, Inc.	11/14/2024		89.30
131443	11550	Alejandro & Peggy Arrivas	11/14/2024	Tulloch Performance Deposit Refund	3,000.00
131444	11086	Benefit Resource, LLC	11/14/2024		150.00
131445	11428	Boutin Jones Inc.	11/14/2024		46.00
131446	11459	C & R Royal SVC, Inc.	11/14/2024	Oil, Oil filters, Air filters, Headlights, Batteries	1,353.37
131447	10154	Calaveras Telephone Co.	11/14/2024		113.88
131448	11548	Charles & Cheryl Cavins	11/14/2024	Tulloch Performance Deposit Refund	3,000.00
131449	11549	Kent Cowan	11/14/2024	Tulloch Performance Deposit Refund	3,000.00
131450	10935	Data Path, Inc.	11/14/2024	Monthly Service Contract Nov. 2024	3,167.45
131451	10245	Doherty Tire of Sonora Inc.	11/14/2024	M/S Tires	2,248.67
131452	10015	Dotan Consultants	11/14/2024	Water Modeling	4,000.00
131453	10250	Downey Brand Attorneys LLP.	11/14/2024		412.00
131454	10294	FISHBIO	11/14/2024	Fish Studies	23,417.50
131455	11074	Gannett Fleming, Inc.	11/14/2024	Dam Safety/Gate Inspections	9,209.64
131456	10319	General Plumbing Supply Co Inc.	11/14/2024		723.29
131457	10320	General Supply Co.	11/14/2024	electrical supplies for TPH Gov. upgrade	1,301.34
131458	10568	George Reed Inc.	11/14/2024	Road Base	3,974.86
131459	10333	Grainger Inc. W. W.	11/14/2024	Lavel cartridges for BPH/TPH wiring, slings	1,180.82
131460	10938	Great America Financial Svcs.	11/14/2024		290.46
131461	11049	Hunt & Sons, LLC	11/14/2024	Bulk Fuel	5,182.93
131462	11551	Hunt Oil Company, Inc.	11/14/2024		155.46
131463	11540	JB Excavation	11/14/2024	Hauling services for Roadbase	14,950.00
131464	10879	Lowe's	11/14/2024		720.64
131465	11547	Izak Mahoney	11/14/2024		200.00
131466	11500	JTM Cleaning Co.	11/14/2024		522.50
131467	10439	McMaster-Carr Supply Co.	11/14/2024		44.23
131468	10513	Pacific Gas & Elec - Non Util	11/14/2024		168.28
131469	11472	Pacific Gas & Electric	11/14/2024		304.89
131470	11495	Western Hydrologic	11/14/2024	Streamgaging	6,250.00
131471	11510	Snap-on Incorporated	11/14/2024		562.70
131472	10641	Sonora Airco Gas & Gear	11/14/2024		41.81
131473	11005	Sonora Lumber Company	11/14/2024		35.14
131474	10658	Springbrook Holding Company LLC	11/14/2024	Software Renewal	13,462.24
131475	11473	Staples	11/14/2024		459.95
131476	10685	Strange Resource Management	11/14/2024	Aquatic vegetation survey	6,120.00
131477	11343	Tim O'Laughlin, PLC	11/14/2024	Legal Fees	5,872.50

131478	10740	Tuolumne Utilities District	11/14/2024	Utilities	2,359.07
131479	10749	UPS	11/14/2024		12.47
131480	11546	Michelle Valdes	11/14/2024		54.07
131481	11435	VISA	11/14/2024	Travel, label maker, Crane motor, Job Postings	3,978.06
131482	10891	Wagner & Bonsignore Consulting Civil Engineers	11/14/2024		102.50
131483	10776	Waste Mgmt of Cal Sierra Inc.	11/14/2024		427.12
131484	11511	Amazon Capital Services, Inc.	11/26/2024		948.98
131485	11457	AT&T - CalNet	11/26/2024		286.79
131486	11552	Brady Worldwide Inc.	11/26/2024		533.73
131487	10124	CA Dept of Tax & Fee Administration	11/26/2024	Water Rights	37,829.80
131488	11286	Digital Telecommunications Corp.	11/26/2024	Telephone	3,595.00
131489	11049	Hunt & Sons, LLC	11/26/2024	Bulk Fuel	7,032.20
131490	11188	Infiniti Wireless	11/26/2024	Communication Components	2,499.00
131491	11430	Landrum, Inc.	11/26/2024	Cyber Keys, padlocks	2,702.50
131492			11/26/2024	void	0.00
131493			11/26/2024	void	0.00
131494			11/26/2024	void	0.00
131495	11438	Pacific Gas & Electric	11/26/2024		62.81
131496	10514	Pacific Gas & Electric Co.	11/26/2024	Utilities	6,453.07
131497			11/26/2024	void	0.00
131498	11519	Rogers, Anderson, Malody & Scott, LLP	11/26/2024	Accounting Support Services	1,950.00
131499	10661	SSJID ~ Routine	11/26/2024		306.86
131500	10402	Superior Plus Energy Services Inc.	11/26/2024		790.29
131501	10699	TCB Industrial	11/26/2024	Beardsley Trunnion Pin	150,585.53
131502	11532	Telemedia LLC	11/26/2024	Training Subscription	15,000.00
131504	11258	Verizon	11/26/2024		792.81
131505	10439	McMaster-Carr Supply Co.	11/26/2024		951.86
131506	10500	OID ~ Routine	11/26/2024	Finance/Admin Reimbursement	8,572.75
131507	10749	UPS	11/26/2024		87.55
131508	11011	Pacific Gas & Electric	11/26/2024	Utilities	4,565.14
131509	10813	ACWA Joint Powers Insurance Authority	11/26/2024	Health Benefits	55,292.94
131510	10869	Franchise Tax Board	11/26/2024		116.00
131511	10811	IBEW	11/26/2024	EE Union Dues	1,345.13
131512	10812	Nationwide Retirement Solution	11/26/2024	EE/ER Retirement	8,025.83
131513	10663	Standard Insurance Co.	11/26/2024	Short/Long Term Disability	1,302.76

565,674.39



CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION
PO BOX 942879, SACRAMENTO, CA 94279-0001
1-800-400-7115 • FAX 1-279-279-7370
www.cdtfa.ca.gov

GAVIN NEWSOM
Governor

AMY TONG
Secretary, Government Operations Agency

NICOLAS MADUROS
Director

TRI-DAM AUTHORITY
PO BOX 1158
PINECREST CA 95364-0158

Letter Date: November 14, 2024
Letter ID: L0028723105
Account Type: Water Rights
Account Number: 094-013700
Period Begin: July 1, 2024
Period End: June 30, 2025

Vendor # 10124
PO#
GL# 1.7.04.96.59615 14611.25
GL# 1.0.00.00.12900 14611.25

Spencer

Notice Service Date: November 15, 2024
Finality Date: December 15, 2024
Water Rights ID: FERC2005

Sonnells/Beardsley

Notice of Determination

Why we are contacting you:

The California Department of Tax and Fee Administration (CDTFA) has determined that you are liable for fee, interest, and penalties. The balance below reflects the amount you owe.

	Fee	\$29,222.50
	Interest	0.00
	Penalty	0.00
	Other	0.00
	Payments/Credits	0.00
	Total	\$29,222.50

29,222.50 ÷	
2.00 =	
14,611.25*	

What you must do:

You must pay in full unless you are in a payment plan for the amounts listed. Payment is due in full by the finality date. If the above total is zero, no payment is due.

What will happen if you do not comply:

Failure to pay this notice may result in additional penalties and/or interest. If you disagree with the assessment, you have the right to file a petition for redetermination within 30 days after the notice service date shown above.

Payment options:

To make a payment online, go to our website at www.cdtfa.ca.gov and select *File & Make a Payment*. If you are paying by check, please write your account number and Letter ID (shown above) on your check and include the attached *Statement of Account* payment voucher. Keep the original notice for your records. Make your check payable to the California Department of Tax and Fee Administration and mail to P.O. Box 942879, Sacramento, CA 94279-3535. If you need additional help, please call the telephone number shown above.

Interest:

Additional interest will accrue on the unpaid fee each month at the rate of 11 percent annually. Interest of \$267.87 will accrue if the fee is not paid on or before December 16, 2024.

Penalty for failure to pay when due:

Generally, a penalty of 10 percent attaches to the unpaid amount of fee due if this determination is not paid on or before the finality date.



0028840101 03

Information concerning determination:

A person upon whom a determination is made, or any person directly interested, may petition for reconsideration with the State Water Resources Control Board (SWRCB) within 30 days from the date of this notice. The SWRCB must receive the petition for reconsideration by the 30th day. A petition for reconsideration must be in writing and state the specific grounds upon which it is founded, including an explanation why the petitioner believes that no fee is due or how the petitioner believes that the amount of the fee has been miscalculated. A petition must also include either a copy of the determination or all the following information: (1) the taxpayer's name; (2) the water right or CDTFA identification number; (3) the amount assessed; and (4) the billing period or assessment date.

Anyone filing a petition should be prepared to submit documentary evidence to support the specific grounds upon request. All petitions for reconsideration must be mailed to the following address:

State Water Resources Control Board, Division of Water Rights, P.O. Box 2000, Sacramento, CA 95812-2000.

Petitions for reconsideration are governed by Chapter 4 (commencing with section 1120) of Part 1 of Division 2 of the Water Code and Article 12 (commencing with section 768) of Chapter 2 of Division 3 of Title 23 of the California Code of Regulations. The California Water Code and California Code of Regulations may be found at www.waterboards.ca.gov/laws_regulations.

Prompt payment of undisputed portions of the liability should be made. This will prevent accrual of additional interest thereon and will not in any way affect the protested portions.

Additional information:

The above assessment is based upon amounts due for the annual fee for a Ferc Licensed Hydroelectric project as required under California Code of Regulations, Title 23, section 3833.1.

New! Fees Associated with Late Reporting of Annual Water Use

Annual water use reporting is required for all water rights. Annual water use reports must be submitted to the State Water Resources Control Board before February 1, 2025, for the period of October 1, 2023, through September 30, 2024.

Starting in 2025, reports for appropriative water rights and registrations submitted more than 30 days after the reporting deadline will be subject to late reporting fees. The late fee is based on a percentage of your annual water right fee with larger water rights subject to higher fees. The late fee increases based on how late the report is submitted with reports submitted more than 90 days late incurring the largest fee. This late fee, if applicable, will be added to your annual water right fee due to the California Department of Tax and Fee Administration. **To avoid a late fee, water right holders are encouraged to submit their water use information as soon as possible and before the reporting deadline.**

For more information on how to submit your annual water use report, please refer to the October 2024 letter sent from the State Water Resources Control Board's Division of Water Rights or visit the following webpage: http://www.waterboards.ca.gov/rms_help. You can also email Division of Water Rights staff at: RMS@waterboards.ca.gov or call us at: 916-341-5431.

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Summer Nicotero

SUBJECT: Resolution for US Bureau of Reclamation Notice of Funding Opportunity No. R24AS00329 Central Valley Project Fish Information Needs

RECOMMENDED ACTION: Consider adoption of Resolution TDP 2024-10 for US Bureau of Reclamation Notice of Funding Opportunity No. R24AS00329 Central Valley Project Fish Information Needs

BACKGROUND AND/OR HISTORY:

At a previous meeting, FISHBIO requested our support in applying for a grant through the US Bureau of Reclamation. A resolution authorizing the grant application is required. Staff recommend approving the resolution, authorizing the General Manager as the legal authority to enter into a financial agreement with the US Bureau of Reclamation.

FISCAL IMPACT: None

ATTACHMENTS: Resolution TDP 2024-10 US Bureau of Reclamation

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

**TRI-DAM PROJECT
RESOLUTION NO. TDP 2024-10
RESOLUTION AUTHORIZING TO COMMIT NOTICE OF FUNDING
OPPORTUNITY NO. R2AS00329 CENTRAL VALLEY PROJECT FISH
INFORMATION NEEDS**

A Resolution by the Board of Directors of the Tri-Dam Project Authorizing a Proposal for Funding from the US Bureau of Reclamation to Execute the Agreement and any Amendments thereto, for the Central Valley Project Fish Information Needs.

WHEREAS, the Tri-Dam Project is a joint partnership of the Oakdale and South San Joaquin Irrigation Districts with responsibility for and authority over flood management, irrigation water supply, and dam safety in the area proposed for the project and is willing to participate in, coordinate, and collaborate with other interested parties that are participating in the development of the Tri Dam Project; and

WHEREAS, the Tri-Dam Project is authorized to enter into an agreement with the US Bureau of Reclamation;

THEREFORE, BE IT RESOLVED by the Board of Directors of the Tri-Dam Project as follows:

1. That the Board of Directors authorizes the General Manager, or designee, to execute the funding agreement with the US Bureau of Reclamation and any amendments thereto.
2. The General Manager has reviewed and supports the application submitted.
3. That the General Manager, or designee, will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement.

PASSED AND ADOPTED by the Joint Board of Directors of the OAKDALE IRRIGATION DISTRICT and of the SOUTH SAN JOAQUIN IRRIGATION DISTRICT for the TRI-DAM PROJECT this 19th day of December 2024 by the following vote:

OAKDALE IRRIGATION DISTRICT

**AYES:
NOES:
ABSENT:
ABSTAIN:**

SOUTH SAN JOAQUIN IRRIGATION DISTRICT

**AYES:
NOES:
ABSENT:
ABSTAIN:**

OAKDALE IRRIGATION DISTRICT

SO. SAN JOAQUIN IRRIGATION DISTRICT

Tom D. Orvis, President

Glenn Spyksma, President

Scot Moody, Secretary

Peter M. Rietkerk, Secretary

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Summer Nicotero

SUBJECT: Fiscal Year 2025 Proposed Budget

RECOMMENDED ACTION: Presentation and Discussion of 2025 Proposed Budget

BACKGROUND AND/OR HISTORY:

The Fiscal Year 2025 Budget was developed based on an average water year. The Power Purchase Agreement with Silicon Valley Power allows for a decline in price per megawatt each year. This decrease will result in a loss of power sales revenue of \$3.6 million over current year budget. To offset the loss in revenues we are actively pursuing grant funding opportunities. Many of those are not detailed in the budget as it is too early to predict the award amounts.

The proposed budget includes an overall decrease in operating expense budget of \$855,000. The majority of the savings come from the completion of large forest road projects that do not qualify as capital projects and legal settlements. For most items this is a status quo budget.

The revenues are estimated on the conservative side with a median energy sales projection. Grant funding and FEMA reimbursements are in process and expected to be recognized in 2025.

Capital expenditures are primarily budgeted in the remodel of the Sonora office (\$2.2 mil) and the Tulloch spillway road repair (\$2.5 mil). The remaining capital projects are largely continuations of projects approved in the 2024 budget that are not yet complete (\$2 mil).

Several changes expected in the coming year that will affect budget include the need to begin our comprehensive assessment process by hiring an independent consultant. This expense is budgeted at \$200,000 under FERC Part 12D. The cost of inspecting the Tulloch main transformer estimated at \$150,000, included in this board packet under separate cover. The Tulloch shoreline erosion work previously approved in 2024 will continue in 2025. We have applied for a grant in an effort to offset \$100,000 of this cost in 2025. We are underfilling the Maintenance Lead for the 2025 year as there were no highly qualified candidates found during our recruitment. The savings will be partially offset by membership in CEATI, a resource for operations and maintenance personnel further discussed in a separate item in the board packet. In addition, a new position is included in the budget for a janitor that will assist with facilities maintenance as well as Tulloch Day Use monitoring. We are creating a day-use fee program to offset some of the payroll costs incurred by adding this position. The addition of this position will also reduce costs associated with landscape and facility maintenance contracts estimated at \$75,000 annually.

Goodwin operating expenses are budgeted at \$324,000 and capital expenses at \$105,000. One third of these expenses will be reimbursed by Stockton East Water District for a total budgeted reimbursement of \$142,000. The Goodwin budget is included in the attachments for review.

FISCAL IMPACT: Increase in net position of \$12.8 million before distributions

ATTACHMENTS: Proposed 2025 Budget

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

TRI-DAM PROJECT



2025 PROPOSED BUDGET

TRI-DAM PROJECT POSITION LIST

	2024 Staffing	2025 Staffing	Change in Staffing
Administration & Finance			
General Manager	1.0	1.0	0.0
Exec Asst./ Board Clerk	1.0	1.0	0.0
Accounting Supervisor	1.0	1.0	0.0
Finance Clerk	1.0	1.0	0.0
Compliance Coordinator	1.0	1.0	0.0
Total Administration & Finance	5.0	5.0	0.0
Operations & Maintenance			
Operations & Maintenance Manager	1.0	1.0	0.0
Operations			
Lead Operator	1.0	1.0	0.0
Control Room Operators	4.0	4.0	0.0
Operators	4.0	4.0	0.0
Maintenance			
Lead Maintenance Specialist	1.0	1.0	0.0
Maintenance Specialist	2.0	2.0	0.0
Maintenance Specialist Trainee	1.0	1.0	0.0
Laborer	2.0	2.0	0.0
Janitor	0.0	1.0	1.0
Mechanic	1.0	1.0	0.0
Lead Technician	1.0	1.0	0.0
Electrician	1.0	1.0	0.0
Technician	2.0	2.0	0.0
Total Operations & Maintenance	21.0	22.0	1.0
TOTAL STAFFING	26.0	27.0	1.0



Tri-Dam Project 2025 Proposed Budget

	2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Amended Budget		Change from 2024 Projection		
Operating Revenues										
1	Power Sales	27,782,378	48,743,224	32,900,000	\$ 42,500,000	\$ 29,250,000	\$ (3,650,000)	-11%	\$ (13,250,000)	-31%
2	Headwater Benefit	397,836	424,396	416,000	437,777	425,000	9,000	2%	(12,777)	-3%
3	Total Operating Revenues	28,180,214	49,167,620	33,316,000	42,937,777	29,675,000	(3,641,000)	-11%	(13,262,777)	-31%
Operating Expenses										
4	Salaries and Wages	2,815,750	1,988,298	2,795,624	2,067,000	2,503,700	(291,924)	-10%	436,700	21%
5	Benefits and Overhead	1,703,371	2,478,139	1,855,256	1,708,168	1,793,576	(61,680)	-3%	85,408	5%
6	Operations	938,515	848,726	1,395,150	1,192,901	1,357,150	(38,000)	-3%	164,249	14%
7	Maintenance	711,785	722,147	1,862,000	2,351,500	1,023,500	(838,500)	-45%	(1,328,000)	-56%
8	General & Administrative	2,845,043	2,308,554	2,865,500	3,368,700	3,180,200	314,700	11%	(188,500)	-6%
9	Depreciation & Amortization	2,311,240	2,286,695	2,250,000	2,233,532	2,310,000	60,000	3%	76,468	3%
10	Total Operating Expenses	11,325,704	10,632,559	13,023,530	12,921,801	12,168,126	(855,404)	-7%	(753,675)	-6%
11	Net Income From Operations	16,854,510	38,535,061	20,292,470	30,015,976	17,506,874	(2,785,596)		(12,509,102)	
12 Nonoperating Revenues (Expenses)										
13	Lawsuit Settlement Proceeds	2,150,500	-	-	-	-	-	0%	-	0%
14	Grant Revenue	-	-	-	330,000	150,000	150,000	0%	(180,000)	0%
15	Water Sales	156,021	153,430	200,000	200,000	200,000	-	0%	-	0%
16	Net Investment Earnings (Loss)	(233,185)	734,434	314,000	768,913	420,000	106,000	34%	(348,913)	-45%
17	Tulloch Encroachment Permits	29,250	35,100	25,000	16,440	15,000	(10,000)	-40%	(1,440)	-9%
18	Rental Income	89,356	91,917	100,000	90,000	100,000	-	0%	10,000	11%
19	Operating Cost Recovery	212,058	187,757	1,750,000	210,199	1,000,000	(750,000)	-43%	789,801	376%
20	Gain/(Loss) on Asset Disposal	26,078	51,437	-	31,150	30,000	30,000	0%	(1,150)	-4%
21	Other Nonoperating Revenue	8,416	8,194	9,000	11,000	10,000	1,000	11%	(1,000)	-9%
22	Total Nonoperating Revenues (Expenses)	2,438,494	1,262,269	2,398,000	1,657,702	1,925,000	(473,000)	-20%	267,298	16%
22	Net Income Before Capital Expenses	\$ 19,293,004	\$ 39,797,330	\$ 22,690,470	\$ 31,673,678	\$ 19,431,874	\$ (3,258,596)	-14%	\$ (12,241,804)	-39%
24	Capital Budget	(1,094,284)	\$ (3,995,656)	(6,159,791)	(911,667)	(6,591,000)				
25	Change in Net Position before Distributions	18,198,720	35,801,674	16,530,679	30,762,011	12,840,874				



Tri-Dam Project Detailed Revenues 2025 Proposed Budget

	2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Adopted Budget		Change from 2024 Projection	
Operating Revenues									
1 Power Sales	\$ 27,782,378	\$ 48,743,224	\$ 32,900,000	\$ 42,500,000	\$ 29,250,000	(3,650,000)	-11%	(13,250,000)	-31%
2 Headwater Benefit	397,836	424,396	416,000	437,777	425,000	9,000	2%	(12,777)	-3%
3 Total Operating Revenues	28,180,214	49,167,620	33,316,000	42,937,777	29,675,000	(3,641,000)	-11%	(13,262,777)	-31%
Nonoperating Revenues (Expenses)									
4 Lawsuit Settlement Proceeds	2,150,500	-	-	-	-	-	0%	-	0%
5 Grant Revenue	-	-	-	330,000	150,000	150,000	0%	(180,000)	-55%
6 Water Sales	156,021	153,430	200,000	200,000	200,000	-	0%	-	0%
7 Interest Income	98,631	607,348	483,000	649,687	500,000	17,000	4%	(149,687)	-23%
8 Investment Earnings	275,565	151,857	(149,000)	96,107	(100,000)	49,000	-33%	(196,107)	-204%
9 Change in Market Value of Investments	(597,618)	-	-	42,119	40,000	40,000	0%	(2,119)	-5%
10 Tulloch Encroachment Permits	29,250	35,100	25,000	16,440	15,000	(10,000)	-40%	(1,440)	-9%
11 Equipment Rental Income	26,400	3,500	28,000	20,000	30,000	2,000	7%	10,000	50%
12 Rental Income- Strawberry Peak	25,646	35,049	31,000	30,000	30,000	(1,000)	-3%	-	0%
13 Rental Income- Mt. Elizabeth	37,310	53,368	41,000	40,000	40,000	(1,000)	-2%	-	0%
14 Reimbursements/Govt Entities	212,058	187,757	1,750,000	210,199	1,000,000	(750,000)	-43%	789,801	376%
15 Gain/(Loss) on Asset Disposal	26,078	51,437	-	31,150	30,000	30,000	0%	(1,150)	-4%
16 Other Nonoperating Revenue	8,416	8,194	9,000	11,000	10,000	1,000	11%	(1,000)	-9%
Total Nonoperating Revenues (Expenses)	2,448,257	1,287,040	2,418,000	1,676,702	1,945,000	(473,000)	-20%	268,298	16%
Total Revenues	\$ 30,628,471	\$ 50,454,660	\$ 35,734,000	\$ 44,614,479	\$ 31,620,000	\$ (4,114,000)	-12%	\$ (12,994,479)	-29%



Tri-Dam Project Expense Summary 2025 Proposed Budget

		2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Amended Budget		Change from 2024 Projection	
Expenses by Function										
1	Operations	2,642,495	2,255,123	2,744,342	2,788,069	3,060,526	316,184	12%	272,457	10%
2	Maintenance	2,153,398	1,778,342	3,790,160	3,459,500	2,264,900	(1,525,260)	-40%	(1,194,600)	-35%
3	General & Administrative	4,218,571	4,312,399	4,239,028	4,440,700	4,532,700	293,672	7%	92,000	2%
4	Depreciation	2,076,903	2,049,504	2,000,000	2,000,000	2,070,000	70,000	4%	70,000	4%
5	Amortization	234,337	237,191	250,000	233,532	240,000	(10,000)	-4%	6,468	3%
6	Total Expenses	11,325,704	10,632,559	13,023,530	12,921,801	12,168,126	(855,404)	-7%	(753,675)	-6%
Nonoperating Expenses										
7	Investment Expenses	9,763	24,771	20,000	19,000	20,000	-	0%	1,000	5%
	Total NoOp Revenues (Expenses)	9,763	24,771	20,000	19,000	20,000	-	0%	1,000	5%
	Total Expenses	\$ 11,335,467	\$ 10,657,330	\$ 13,043,530	\$ 12,940,801	\$ 12,188,126	\$ (855,404)	-7%	\$ (752,675)	-6%



Tri-Dam Project Operations Department Expenses 2025 Proposed Budget

	2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Adopted Budget		Change from 2024 Projection		
Operations Summary										
1	Salaries and Wages	1,168,045	982,105	899,288	1,165,000	1,251,700	352,412	39%	86,700	7%
2	Benefits and Overhead	535,935	424,292	449,904	430,168	451,676	1,772	0%	21,508	5%
	Operations Dept Labor Exp	1,703,980	1,406,397	1,349,192	1,595,168	1,703,376	354,184	26%	108,208	7%
3	Interconnection Expense 3rd Unit	2,019	2,019	2,400	2,050	2,400	-	0%	350	17%
4	Powerhouse & Dam utilities	59,968	45,396	45,000	45,000	49,000	4,000	9%	4,000	9%
5	Dam Monitoring / Surveying	7,351	16,200	15,000	13,000	17,000	2,000	13%	4,000	31%
6	Powerhouse & Dam Supplies	2,020	3,246	6,000	7,500	7,000	1,000	17%	(500)	-7%
7	Furnishings & Misc Equipment	553	2,819	1,000	601	1,000	-	0%	399	66%
8	Safety Supplies	13,534	13,471	18,000	6,000	18,000	-	0%	12,000	200%
9	Site Utilities - (ME,SP,DP only)	50,845	45,003	60,000	65,000	72,500	12,500	21%	7,500	12%
10	Travel & Training	17,596	23,197	55,000	37,000	55,000	-	0%	18,000	49%
11	Dam safety fees	262,189	302,811	330,000	321,000	337,000	7,000	2%	16,000	5%
12	FERC Admin & Land Fees	181,018	146,071	200,000	173,500	200,000	-	0%	26,500	15%
13	Streamgaging	74,325	112,493	75,000	75,000	77,250	2,250	3%	2,250	3%
14	Streamgaging Certification	52,749	15,853	57,750	41,000	60,000	2,250	4%	19,000	46%
15	USFS permit fees	162,000	14,145	178,000	176,000	210,000	32,000	18%	34,000	19%
16	Operations Consulting	51,651	105,019	350,000	230,000	250,000	(100,000)	-29%	20,000	9%
17	Small Tools	698	983	2,000	250	1,000	(1,000)	-50%	750	300%
	Non-Labor Operations Exp	938,515	848,726	1,395,150	1,192,901	1,357,150	(38,000)	-3%	164,249	14%
	Total Operations Dept Exp	2,642,495	2,255,123	2,744,342	2,788,069	3,060,526	316,184	12%	272,457	10%



Tri-Dam Project Maintenance Department Expenses 2025 Proposed Budget

	2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Adopted Budget		Change from 2024 Projection		
Maintenance Summary										
1	Salaries and Wages	1,025,577	754,709	1,274,208	780,000	897,000	(377,208)	-30%	117,000	15%
2	Benefits and Overhead	416,036	301,486	653,952	328,000	344,400	(309,552)	-47%	16,400	5%
	Maintenance Dept Labor Exp	1,441,613	1,056,195	1,928,160	1,108,000	1,241,400	(686,760)	-36%	133,400	12%
3	Safety Supplies	26,892	17,971	40,000	22,000	40,000	-	0%	18,000	82%
4	Structure/Facilities/Plants	96,098	175,405	150,000	185,000	200,000	50,000	33%	15,000	8%
5	Electrical & Electronic Expense	15,815	22,745	30,000	35,000	30,000	-	0%	(5,000)	-14%
6	Site Improvements - DP,SP,ME	826	944	1,500	-	-	(1,500)	-100%	-	0%
7	Computers Supplies & Support	271	10,972	35,000	1,100	35,000	-	0%	33,900	3082%
8	Mobile Radio Repair & Replace	-	642	1,000	100	1,000	-	0%	900	900%
9	Coms, Micro & Security Systems	64,180	65,302	75,000	48,000	75,000	-	0%	27,000	56%
10	Routine Road Maintenance	87,932	357	40,000	20,000	40,000	-	0%	20,000	100%
11	Travel & Training	10,857	33,440	55,000	20,000	65,000	10,000	18%	45,000	225%
12	Reservoir Maintenance	6,475	4,661	17,000	30,000	25,000	8,000	47%	(5,000)	-17%
13	Engineering and Consulting	1,897	-	5,000	4,300	50,000	45,000	900%	45,700	1063%
14	Rolling Stock Maintenance & Repair	94,096	132,591	140,000	60,000	100,000	(40,000)	-29%	40,000	67%
15	Shop Supplies	20,512	14,336	20,000	7,000	20,000	-	0%	13,000	186%
16	Small Tools	26,240	7,225	15,000	5,500	15,000	-	0%	9,500	173%
17	Miscellaneous Equipment	10,883	8,650	12,000	6,000	12,000	-	0%	6,000	100%
18	Disposal Fees	10,708	8,723	8,500	6,500	8,500	-	0%	2,000	31%
19	Fuel Expense	144,842	136,233	160,000	105,000	150,000	(10,000)	-6%	45,000	43%
20	Equipment Operation & Maintenance	15,282	10,149	7,000	6,000	157,000	150,000	2143%	151,000	2517%
21	Major Road Repairs	77,980	58,066	850,000	1,660,000	-	(850,000)	-100%	(1,660,000)	-100%
22	FERC Gate Inspections	-	13,735	200,000	130,000	-	(200,000)	-100%	(130,000)	-100%
		<u>711,785</u>	<u>722,147</u>	<u>1,862,000</u>	<u>2,351,500</u>	<u>1,023,500</u>	<u>(838,500)</u>	<u>-45%</u>	<u>(1,328,000)</u>	<u>-56%</u>
	Maintenance Dept Expenses	<u>2,153,398</u>	<u>1,778,342</u>	<u>3,790,160</u>	<u>3,459,500</u>	<u>2,264,900</u>	<u>(1,525,260)</u>	<u>-40%</u>	<u>(1,194,600)</u>	<u>-35%</u>



Tri-Dam Project Administration Department Expenses 2025 Proposed Budget

		2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Adopted Budget	Change from 2024 Projection		
Administration Summary										
1	Salaries and Wages	622,128	251,484	622,128	122,000	355,000	(267,128)	-43%	233,000	191%
2	Benefits and Overhead	751,400	1,752,361	751,400	950,000	997,500	246,100	33%	47,500	5%
	Administration Dept Labor Exp	1,373,528	2,003,845	1,373,528	1,072,000	1,352,500	(21,028)	-2%	280,500	26%
3	Professional Services Consulting	73,122	144,648	125,000	156,000	125,000	-	0%	(31,000)	-20%
4	Office & Administrative expense	41,596	39,210	45,000	35,000	45,000	-	0%	10,000	29%
5	Leased Equipment Expense	(40)		3,500	4,500	4,200	700	20%	(300)	-7%
6	Professional Dues & Subscriptions	32,483	25,412	35,000	37,000	60,000	25,000	71%	23,000	62%
7	Utilities - Administrative	52,239	61,431	70,000	65,000	90,000	20,000	29%	25,000	38%
8	Travel & Conference - Admin & Districts	5,100	13,438	20,000	6,200	20,000	-	0%	13,800	223%
9	Meals	5,560	2,956	6,500	10,000	12,000	5,500	85%	2,000	20%
10	Drug Testing & Physicals	184	4,124	3,000	1,200	1,500	(1,500)	-50%	300	25%
11	Computers, Related Supplies & Support	6,024	3,854	15,000	200	10,000	(5,000)	-33%	9,800	4900%
12	Telephone	56,221	17,672	5,000	10,000	15,000	10,000	200%	5,000	50%
13	Data Communication Services	4,639	4,458	40,000	17,000	45,000	5,000	13%	28,000	165%
14	Website & Network Operation & Maint	35,231	52,208	65,000	55,000	60,000	(5,000)	-8%	5,000	9%
15	Legal fees - general matters	314,741	115,981	350,000	1,450,000	350,000	-	0%	(1,100,000)	-76%
16	Reservoir management - Admin	913	2,045	-	1,500	5,000	5,000	100%	3,500	0%
17	Auditing services	11,560	13,875	15,000	15,100	17,000	2,000	13%	1,900	13%
18	Special Consultants/Resource Plans	12,867	25,725	-	-	10,000	10,000	100%	10,000	0%
19	Accounting & Payroll Software	11,629	12,211	13,500	13,000	14,000	500	4%	1,000	8%
20	Tulloch Shoreline Erosion Plan	-	500	-	105,000	700,000	700,000	100%	595,000	0%
21	FERC Part12D Consulting	259,841	-	-	-	200,000	200,000	100%	200,000	100%
22	FERC Cultural Resources	34,705	10,022	10,000	15,000	20,000	10,000	100%	5,000	33%
23	Fish Study Pubs/Non-Native/Chinook	787,879	635,374	330,000	240,000	185,000	(145,000)	-44%	(55,000)	-23%
24	USBR Pln of Opr & SWRCB	-	-	200,000	-	-	(200,000)	-100%	-	0%
25	Labor Relations	-	10,502	60,000	63,000	35,000	(25,000)	-42%	(28,000)	-44%
26	Liability and Property Insurance	675,097	761,881	1,225,000	825,000	907,500	(317,500)	-26%	82,500	10%
27	Property and use taxes	9,760	20,624	26,000	37,000	38,000	12,000	46%	1,000	3%
28	State Water Rights Fees	42,989	37,830	40,000	38,000	40,000	-	0%	2,000	5%
29	FERC Headwater benefit assessment	92,799	91,600	93,000	93,000	95,000	2,000	2%	2,000	2%
30	EAP & Other Plan Updates	1,675		50,000	1,000	1,000	(49,000)	-98%	-	0%
31	Legal - District Water Rights	276,229	200,973	20,000	75,000	75,000	55,000	275%	-	0%
		2,845,043	2,308,554	2,865,500	3,368,700	3,180,200	314,700	11%	(188,500)	-6%
	Administrative Dept Expenses	4,218,571	4,312,399	4,239,028	4,440,700	4,532,700	293,672	7%	92,000	2%

Tri-Dam Project Capital Expenditures 2025 Proposed Budget

EXPENDITURE	LOCATION	2024 AMENDED BUDGET through 10/31/24	2024 PROJECTION	PROPOSED BUDGET 2025	CO BUDGET 2026	
1	Lowe Boat Motor Replacement	Equipment	11,191	11,229	-	-
2	Tulloch Powerhouse Control Room HVAC	Tulloch PH	12,000	10,696	-	-
3	Beardsley Dam Gate 1 Trunnion Pin Repair	Beardsley	332,000	351,000	-	-
4	EGEN Replacement	Donnells	3,000	3,000	-	-
5	Tulloch Meters Upgrade	Tulloch PH	40,000	40,000	-	-
6	Megger Insulation Resistance Tester	Various	9,600	10,000	-	-
7	Powerhouse Fire Hydrant	Donnells	8,000	16,000	-	-
8	Carbon Dust Collection System, Brush Holder, Brushes	Donnells	60,000	61,000	-	-
9	Quincy Rotary Screw Air Compressor (2 units)	Beardsley	30,000	35,115	-	-
10	Replace 12-1 4x4 Pickup 142,000	Vehicle	55,000	50,000	-	-
11	Replace 13-2 4x4 Tahoe 160,000	Vehicle	55,000	50,000	-	-
12	Fire supression trailer (Water Buffalo)	Equipment	14,000	-	12,000	-
13	Controls Network Switches Upgrade	Various	50,000	40,000	15,000	-
14	Upgrade SCADA RTU / RTAC/ RTU Migration	Various	60,000	35,000	40,000	-
15	Division Tower and Comm site install	Division Point	400,000	-	400,000	-
16	O'Byrnes (Tulloch) Recreation Site	Tulloch Reservoir	100,000	-	100,000	-
17	Tulloch skimmer Gate actuator	Tulloch	50,000	-	50,000	-
18	Donnells Solar Power Supply (engineering, etc.)	Donnells	100,000	6,627	100,000	-
19	Tulloch Spillway Road	Tulloch	350,000	55,000	2,500,000	-
20	Electric Operators for shop doors	Strawberry	15,000	-	15,000	-
21	Beardsley Meters Upgrade	Beardsley PH	40,000	10,000	30,000	-
22	High Bay LED Lighting	Various	48,000	-	48,000	-
23	New Headquarters	Sonora	2,000,000	45,000	2,200,000	-
24	Tulloch 1 and 2 Gateshaft Gov retrofit	Tulloch	300,000	20,000	280,000	-
25	Path Boxes to align microwave dishes	Equipment	25,000	-	25,000	-
26	Beardsley Lathe Refurbishment	Beardsley	10,000	-	10,000	-
27	Exciter/Bridge Replacement	Donnells	400,000	-	200,000	-
28	Tulloch PLC Screens, Processor, and I/O Module	Tulloch	40,000	-	40,000	-
29	Radio and dish replacement DDM to SPK Link	Strawberry Peak	60,000	12,000	50,000	-
30	Radio and dish replacement Mt Liz to Division Link	Mt Elizabeth	60,000	12,000	50,000	-
31	Radio and dish replacement Tulloch to Goodwin	Goodwin	60,000	12,000	50,000	-
32	Vehicle Replacement- TBD	Vehicle	-	-	60,000	-
33	Vehicle Replacement- Compliance Tahoe	Vehicle	-	-	50,000	-
34	Tulloch GSU work, Drain Filter repair	Tulloch	200,000	-	200,000	-
35	Goodwin Generator Replacement	Goodwin	51,000	15,000	36,000	-
36	ClearSCADA Server Replacement	Donnells	-	-	30,000	-
37	Cyberlock Project	Tulloch	10,000	-	-	10,000
38	GraphEX-OI interface TPH 1 &2	Tulloch	40,000	-	-	40,000
39	Cyberlock Project	Various	45,000	-	-	45,000
40	Tulloch/Donnells Cottages	Tulloch, Donnells	-	-	-	100,000
41	Equipment-Manlift	Vehicle	150,000	-	-	150,000
42	EGEN Replacement	Division Point	30,000	7,000	-	30,000
43	SF-6 Breaker Replacement Program	Various	-	-	-	500,000
44	Renovate BPH Kitchen	Beardsley	6,000	-	-	-
45	Tulloch Shoreline Erosion Project- Site #3	Tulloch	800,000	-	-	-
46	Tulloch Barge Removal	Tulloch	20,000	4,000	-	-
47	Halatron Fire extinguishes for control/MCC all locations	Various	10,000	-	-	-
TOTAL CAPITAL		6,159,791	911,667	6,591,000	875,000	

Tri-Dam Project

2024 Budget

Goodwin Dam

Acct No.	Category			Amended	2024 Actuals	2024	2025	
		2022 Actual	2023 Actual	2024 Budget	Thru 11/30/24	Projection	Proposed Budget	
OPERATIONS								
1	53940	Dam Supplies	300	-	400	-	500	500
2	53970	Utilities	4,851	4,571	5,100	5,721	7,200	8,300
3	59610	Dam Safety Fees	10,618	22,046	12,000	23,366	27,600	31,700
4	59640	Streamgaging	44,595	45,000	48,000	41,291	49,200	56,600
5	59645	Streamgaging Certification - USGS	13,533	6,100	17,000	4,643	6,000	6,900
6		GOODWIN OPERATIONS EXPENSE	73,896	77,717	82,500	75,021	90,500	104,000
MAINTENANCE								
7	54330	Maintenance & Repairs to Facilities	625	1,406	5,000	941	1,200	5,000
8	54560	Microwave / Computer Repair & Replacement	-	-	2,000	-	-	2,000
9	54730	Communications & Security System	26	3,110	220	173	-	500
10	59755	Equipment Rental from Tri-Dam Project	2,400	3,500	3,500	4,800	4,800	5,500
11		GOODWIN MAINTENANCE EXPENSE	3,051	8,016	10,720	5,914	6,000	13,000
ADMINISTRATION								
12	59310	Legal Fees	-	-	5,000	-	-	5,000
13	59331	Auditing Services	-	2,775	3,900	3,000	3,000	3,500
14	59410	Insurance Premiums	6,806	7,800	8,000	19,721	19,800	22,800
15	59200	Professional Services Consulting	-	-	-	696	1,400	1,600
16		GOODWIN ADMINISTRATIVE EXPENSE	6,806	10,575	16,900	23,417	24,200	32,900
17		TOTAL OPERATIONS, MAINTENANCE & ADMIN	83,753	96,308	110,120	104,352	120,700	149,900
LABOR & OVERHEAD								
18	53510	Payroll Labor - Operations	82,073	79,651	81,900	69,795	84,000	87,400
19		Payroll Labor - Administration	15,889	14,194	18,200	5,606	7,200	7,500
20		Payroll Labor - Maintenance	25,066	15,592	40,700	17,438	20,400	21,200
21	53520	Payroll Overhead - Operations	30,116	25,938	29,900	25,906	31,200	34,300
22		Payroll Overhead - Administration	5,121	5,702	6,500	2,682	3,600	4,000
23		Payroll Overhead - Maintenance	10,642	6,442	11,200	8,634	10,800	11,900
24	59200	Profession Contract Services - Finance Manager	2,410	2,380	3,400	6,300	7,200	7,900
25		TOTAL LABOR & OVERHEAD	168,906	147,519	191,800	136,361	164,400	174,200
26								
27		TOTAL GOODWIN OPERATING EXPENSES	252,660	243,827	301,920	240,713	285,100	324,100
CAPITAL EXPENDITURES								
28		Goodwin Gate Generator	-	-	-	-	-	15,000
29	1-8-06-35	Radio and Dish Replacement	-	-	-	-	-	60,000
30	1-8-06-77	Microwave link upgrade	-	-	30,000	10,520	13,200	30,000
31		TOTAL CAPITAL EXPENDITURES	-	-	30,000	10,520	13,200	105,000

BOARD AGENDA REPORT

Date: 12/19/2024

Staff: Alex Brown

SUBJECT: Internal Inspection of the Tulloch Main Transformer

RECOMMENDED ACTION: Consider authorization of an internal inspection of the Tulloch main transformer

BACKGROUND AND/OR HISTORY:

Tulloch's main transformer has been gassing since 2012. In 2020 we had the oil degassed to reset our DGA registers and start with a new base line. Unfortunately it continues to gas at the same rate. We reached out to have our oil samples analyzed and the determination is that we have an internal thermal fault. The next step would be to drain and inspect.

Sole Source justification: We would like to recommend Delta Star as the sole source vendor. They are familiar with our oil samples. They degassed this transformer in 2020. We have reached out to other vendors but have not gotten any responses. Our annual outage is approaching quickly so we would like to move on this so we don't have to take an additional outage.

FISCAL IMPACT: Included 2025 Budget \$150,000

ATTACHMENTS: Delta Star Quote \$83,543

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

CORPORATE HEADQUARTERS

3550 Mayflower Drive
Lynchburg, Virginia 24501
(800) 368-3017

FACILITY & SERVICE LOCATIONS

Forest, Virginia
Lynchburg, Virginia
Saint-Jean-sur-Richelieu, Quebec
San Carlos, California



DELTA STAR

THE LEADER IN POWER SUBSTATION SOLUTIONS • POWER AT ALL TIMES

**DELTA STAR FIELD SERVICE
QUOTATION: OS4888**

Date: 11/20/2024

Customer Name: Tri-Dam Project
Contact Person: Daniel Hogue
Contact ph# / E-mail: (209) 965-3996 / dhogue@tridamproject.com
Quote #: OS4888
Revision: 0

Delta Star Field Service Contacts

Proposal Specialist – Field Service
Marvelous Glenn
mglenn@deltastar.com
(434) 907-9400

Regional Sales Director
Thomas Aikens
taikens@deltastar.com
(208) 317-4548

Sales Representative
Matthew Wallace – Highpoint Power Sales
matthew@highpointpower.com
(209) 232-7589

OFFER SUMMARY

Item	Description	Unit Price
1	Delta Star will provide manpower and equipment to pre-test, drain internally inspect, report findings, vacuum oil filling/processing FR-3 fluid, and post-test one (1) Virginia Transformer unit in Jamestown, CA. <i>See Complete Scope.</i>	\$68,687
2*	Journeyman – Lineman, Cable Splicer Classification: Prevailing Wages (Cost + 10%)	\$14,856
TOTAL PRICE:		\$83,543

*NOTE: Line Item 2 assumed for calculation of prevailing wages per CA DIR.

Estimated Performance Duration

Estimated: 5 days on-site.

Work is quoted upon using Delta Star crews working 7-days per week, 8-12 hours per day. Estimated completion time is dependent on Buyer cooperation and site and weather conditions at the time of execution. All work shall be performed during a mutually agreed upon schedule, subject to availability after receipt of order.

Pricing

Prices are valid for 90 days from the quotation date. Prices are subject to Delta Star’s Field Service Rate Schedule FS-1000A.

Milestone Billing

100% invoiced upon project completion, unless otherwise agreed in writing by Buyer and Delta Star



Payment terms

Net 30 days from invoice date

SCOPE OF WORK

Transformer Information	
Manufacturer:	Virginia Transformer
Serial number:	HA198A
MVA:	22 MVA
Voltage:	123kV – 6.9kV
Tank and radiator oil capacity:	6704 Gallons (FR3)

Site Address and Contact	
Site address:	13852 Tulloch Dam Rd, Jamestown, CA 95327
Site contact:	Daniel Hogue – 209.965.3996 – dhogue@tridamproject.com

Arrival

- Mobilize crew and equipment to customer location
- Conduct safety tailgate meeting and site/station walk-down
- Tri-Dam Project to disconnect, de-energize, isolate, and ground any equipment required to establish a safe work area
- Delta Star to supply: personnel, oil processor, portajon, tanker w/berm, diesel for generator, oil samples, safety equipment, confined space entry, & PPE.

Pre-Testing

- Transformer Turns Ratio (TTR)
- Core Insulation Resistance (If accessible)
- Winding Insulation Resistance
- Winding Power Factor & Capacitance
- Bushing C1/C2 (Hot Collar if no C2 tap)
- Excitation current & losses – as found DETC position
- Winding Resistance (Demagnetize core after test)
 - As-found HV DETC position
 - LV Tap N
- Oil Quality to include Moisture Content, Dielectric Breakdown (D1816-2) and Power Factor @ 100°C
- Dissolved Gas Analysis (DGA)



Internal Inspection

- Completely drain existing FR-3 fluid (approximately 6,704 gallons) from main tank into Delta Star provided oil storage.
- Follow down oil with dry air and maintain dry air supply with air quality testing to ensure adequate oxygen levels during all maintenance work.
- Perform confined space entry documentation and activities, if required, for internal access.
- Once complete remove manhole cover and test oxygen level
- If air is acceptable fill out confined space permit and enter transformer
- Inspect internal core/coil and internal connections along with clearances, searching for cause of the gassing.
- Photograph and document all findings to discuss with the customer to determine next steps.
- If a field repair is possible and with the customer's approval, make needed repairs
 - *NOTE: Repairs to be based on time and material rates.*
- After inspection, replace manhole cover, replace gasket, tighten bolts, and perform pressure test to ensure no leaks.
- If no leaks are present, set up for FR-3 fluid oil filling / processing.

Vacuum Filling / Processing (FR3)

- DSI to take oil sample for testing (pre-processing): DGA, moisture, power factor, dielectric breakdown
- Pull vacuum at a level of 1 Torr (1,000 micron, 1mm of Hg) less and hold for a minimum of 2 hours.
- Conduct vacuum leak test.
- Pull vacuum at a level of 1 Torr (1,000 micron, 1mm of Hg) less and hold for a minimum of 6 hours.
- Begin vacuum fill.
- Vacuum fill transformer FR-3 fluid while maintaining a vacuum level of 5 Torr or less.
- Break vacuum and ensure FR-3 fluid is at proper level considering temperature.
- Begin heating oil and circulating in the processor
- Process existing FR-3 fluid for 2 passes of the total volume of oil (6,704 gallons)
- Close inlet and outlet valves
- Disconnect oil hoses and place back on processor
- DSI to take oil sample for testing (post-processing): DGA, moisture, power factor, dielectric breakdown
- Activate nitrogen system when complete (If equipped) and pressurize unit and check for leaks.
- If no leaks are present setup for post-testing

Post-Testing

- Transformer Turns Ratio (TTR)
- Core Insulation Resistance (If accessible)
- Winding Insulation Resistance
- Winding Power Factor & Capacitance
- Bushing C1/C2 (Hot Collar if no C2 tap)
- Excitation current & losses – as found DETC position
- Winding Resistance (Demagnetize core after test)
 - As-found HV DETC position

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- LV Tap N
 - Oil Quality to include Moisture Content, Dielectric Breakdown (D1816-2) and Power Factor @ 100°C
 - Dissolved Gas Analysis (DGA)
 - Tri-Dam project to reconnect, re-energize, and remove ground on any equipment required to establish a safe work area.
 - DSI to perform final walkdown, inspection, cleanup, and demobilize crew/equipment from site.
 - DSI to perform oil processor flushing and decontamination activities for FR-3 fluid removal to include new filters throughout and flushing of processor.
- *NOTE: Any additional vacuum or oil processing required beyond what is listed above will be invoiced in accordance with Delta Star's Field Service Rate Schedule FS-1000A.*
- *NOTE: Quote assumes existing mineral oil is certified non-PCB. If PCB content is >2ppm, additional costs will apply for rig flushing, decontamination, new filters, flush oil disposal, etc.*
- *NOTE: For any out-of-scope work, additional pricing will apply and will be invoiced in accordance with Delta Star's Field Service Rate Schedule FS-1000A.*
- *NOTE: It shall be Buyer's duty to disclose whether Prevailing Wages apply to the work described in this quotation and if so, Buyer shall provide the specific Prevailing Wage category or classifications that govern the work. The buyer acknowledges that failure to provide accurate information regarding applicable Prevailing Wages at the quote stage shall result in additional charges. Buyer agrees that any change to the scope of work or labor classifications arising from Prevailing Wage requirements shall be invoiced to Buyer at actual rates plus ten percent (10%), with an additional ten percent (10%) markup of the Prevailing Wage amount to compensate Delta Star for additional administrative costs.*

➤ **CLARIFICATIONS**

All field service work is performed in accordance with the following clarifications, unless otherwise agreed by Delta Star and Buyer in a signed writing.

Buyer Responsibilities

Buyer shall solely have the following responsibilities:

1. Provide free, clear, and unlimited access to substation site and areas around the equipment foundation.
2. Provide switch, lock out, and ground any equipment necessary to establish a safe work area.
3. Disconnect and reconnect all external bushing/bus terminations, protection controls, CTs, and relay wiring, as required.
4. Disassembly and reassembly of any deluge and/or iso-phase bus systems, as required, for free and clear access.
5. Disposal of excess/scrap oil, solid wastes, crates, and/or packaging material generated during the execution of work.
6. Provide temporary power source (120/240 VAC at 30 amps) and a ladder to access the top of the equipment, as needed.
7. Provide one person on-site during the execution of any work for safety reasons, who also has the competency to provide clarifications on any energized or de-energized equipment within the substation.
8. Provide a recent PCB report/certification of each unit prior to the start of any scheduled work.
 - a. If PCB concentration is higher than 49 PPM, Delta Star will be unable to complete the work.
 - b. If PCB concentration is 1-49 PPM, additional decontamination charges shall apply. The proper disposal of the PCB oil shall be the responsibility of Buyer.
9. Buyer accepts and assumes all responsibility for the resolution of any labor disputes regarding union representation, pricing, or work jurisdictions, including full liability for all costs incurred resulting from any such disputes.

Additional Charges

Buyer shall be charged additional fees if any of the following out-of-scope situations occur during performance of the work:

1. Buyer site-specific safety training exceeding four (4) hours.
2. Spare parts that are NOT within fifty (50) feet of the transformer.
3. Safety equipment requirements beyond personal protective equipment (PPE) (safety glasses, hard hat, safety shoes, harness, and lanyard) or Buyer required site-access training for Delta Star personnel or subcontractors.
4. When temperatures are below 10°C (50°F), it will be necessary to elevate the transformers (active part and insulation) temperature prior to starting the final vacuum/oil filling process. This additional work will be based on Delta Star's Field Service Rate Schedule FS-1000A.
5. If secondary oil containment is required for compliance with any EPA or local site SPCC programs.
6. Buyer requirements that exceed those listed in Delta Star's DS-100 (DS Installation and Maintenance Instruction Manual).
7. All work items that are not outlined in the Scope of Work section herein. Additional work performed is considered out-of-scope and will be invoiced in accordance with Delta Star's Field Service Rate Schedule FS-1000A.

Cancellation and Delay Policy

1. Cancellation: In the event of project cancellation, Buyer shall be liable for the amounts set forth and outlined below as compensation for reasonable costs incurred, unless otherwise approved by an

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authorized Delta Star Field Service representative. 0-7 days prior to scheduled on-site date = 25% of order value or 8-14 days prior to scheduled on-site date = 10% of order value.

2. Delays: Pricing is based upon Delta Star crews working seven (7) days a week, and 8-12 hours per day uninterrupted. In the event of any standby time, delays, or Buyer postponement, that are beyond Delta Star's control, including those resulting from restricted or limited site access, 0-7 days prior to the scheduled on-site date shall be considered out-of-scope work and Buyer shall be billed 15% of order value plus all expenses incurred by Delta Star. In the event of any standby time, delays, or Buyer postponement, that are beyond Delta Star's control, including those resulting from restricted or limited site access, 8 or more days prior to the scheduled on-site date shall be considered out-of-scope work and Buyer shall be billed in accordance with Delta Star's Field Service Rate Schedule FS-1000A.



PROPRIETARY & CONFIDENTIAL

TERMS AND CONDITIONS

1. This quotation and the policies and conditions of sale and service attached hereto constitute an offer of sale. Acceptance of this offer is expressly limited to the terms and conditions set forth herein. Any terms or conditions proposed by Buyer that are inconsistent with or in addition to the terms and conditions attached hereto are hereby expressly rejected and shall be of no force or effect whatsoever between the parties. Delta Star reserves the right to update its policies from time to time due to the changing market conditions.
2. Any requested changes to the work scope shall be billed in accordance with Delta Star's Field Service Rate Schedule FS-1000A. Pricing is based upon Delta Star crews working 7-days a week, and 8-12 hours per day uninterrupted. Any standby time or delays that are beyond Delta Star's control, including those resulting from restricted or limited site access, will be considered out-of-scope work, and shall be billed in accordance with Delta Star's Field Service Rate Schedule FS-1000A. In the event of inclement weather, any additional standby charges will be reduced by 25% of the applicable specialist rates outlined in Delta Star's Field Service Rate Schedule FS-1000A.
3. Delta Star reserves the right to correct errors on the quote and all related documents.
4. Unless specifically noted, prices do not include:
 - a. Any special and/or site-specific buyer required access or safety training;
 - b. Any special and/or site-specific safety gear or environmental requirements;
 - c. Any make-up oil if needed;
 - d. Excessive moisture extraction or gassing filtration that will require extended vacuum or oil processing;
 - e. Use of union labor;
 - f. Any local, state, or agency required prevailing wages; or
 - g. Unit leaks before, during or after vacuum that were not disturbed by our personnel or part of our work scope.
5. Any COVID-19 pandemic related additional costs including but not limited to, delays experienced as a result of COVID-19, Buyer mandated self-quarantining pre or post project, COVID-19 testing, additional mobilizations required to accommodate special Buyer or site requirements, and/or any site-specific special equipment or supplies will be invoiced in accordance with FS-1000A.
6. Purchase Orders or any other documents submitted by Buyer pursuant to this quotation will not result in a contract until accepted and acknowledged by Delta Star. Buyer shall submit Purchase Orders by email to FieldServiceRFQ@deltastar.com and copy the Delta Star Sales Representative.

Agreed to and acknowledged.

Company Name of Buyer: _____
Title: _____
Printed Name: _____
Signature: _____
Date: _____



TERMS AND CONDITIONS CONTINUED – GENERAL CONDITIONS OF SALE AND SERVICE

1. **Applicability.**
 - a. These terms and conditions of sale and service ("**Terms**") are the only terms which govern the sale of the goods ("**Goods**") and services ("**Services**") by Delta Star, Inc. ("**Delta Star**") to the Buyer ("**Buyer**"). Delta Star and Buyer shall collectively be referred to as "Party" or "Parties." Notwithstanding anything herein to the contrary, if a written contract signed by both Parties is in existence covering the sale of the Goods and Services covered hereby, the terms and conditions of said contract shall prevail to the extent they are inconsistent with these Terms. The Terms herein shall apply to the extent not specifically addressed in a written contract signed by the Parties.
 - b. The accompanying quotation, order acknowledgment, or invoice and these Terms (collectively, this "**Agreement**") comprise the entire agreement between the Parties, and supersede all prior or contemporaneous understandings, agreements, negotiations, representations and warranties, and communications, both written and oral. In no event shall any conflicting or additional terms set forth in Buyer's purchase order (or any other document) apply to Delta Star's sale of Goods or Services to Buyer, unless specifically agreed to by Delta Star in a signed writing.
2. **Price and Cancellation Policy.**
 - a. Prices shall be subject to Delta Star's Escalation Policy, which is incorporated by reference herein. Buyer required delivery delays shall be subject to escalation/de-escalation provisions found in Delta Star's quote. Buyer shall be responsible for all taxes, fees, levies, customs, duties, and the like which result from the sale of Goods and Services by Delta Star. Buyer shall also be responsible for all additional charges including, but not limited to, freight charges, special packaging requirements, insurance premiums, fees for export, transit, import and other permits, as well as for certifications.
 - b. Unless otherwise provided in Delta Star's quote, prices are based on normal business hours and are valid for thirty (30) days from the date quoted. If Buyer desires to accept this offer later, Delta Star would be pleased to either confirm or resubmit the offer. Overtime and Saturday hours shall be billed at one and one-half (1.5) times the hourly rate, Sunday hours shall be billed at two (2) times the hourly rate, and holiday hours shall be billed at three (3) times the hourly rate. Rates are subject to change without notice.
 - c. Delta Star pricing assumes the use of non-union labor for all work quoted unless otherwise noted. If subcontracted union labor is required, Buyer shall be responsible for additional costs at the prevailing union wages for the required labor.
 - d. Cancelled orders are subject to the Delta Star Cancellation and Delay Policy, which is incorporated by reference herein.
3. **Payment Terms.**
 - a. Buyer shall pay progress payments as provided in Delta Star's quote. Buyer shall pay all invoiced amounts due to Delta Star within thirty (30) days from the date of Delta Star's invoice. The due date for payment shall not be extended if transport, delivery, commissioning, or Buyer's possession of the Goods or Services is delayed or prevented due to reasons beyond Delta Star's control.
 - b. Buyer shall pay interest on all late payments at the lesser of one and one-half percent (1.5%) per month or the highest rate permissible under applicable law, calculated daily and compounded monthly. Buyer shall reimburse Delta Star for all costs incurred in collecting any late payments, including, without limitation, attorneys' fees.
4. **Delivery of Goods and Performance of Services.**
 - a. Delta Star's compliance with its delivery obligations is conditioned on Buyer's continued fulfillment of all its obligations, including without limitation, payment and cooperation obligations.
 - b. In addition to any other rights and remedies available, Delta Star shall have the right to extend the time for delivery for a reasonable time if:
 - i. the information required by Delta Star for performance is not received by an agreed to date, or if Buyer subsequently changes any such information;
 - ii. Delta Star is prevented or hindered from performing based on circumstances beyond its reasonable control, without its fault or negligence, including without limitation, acts of God, valid or invalid action by governmental authority, fires, floods, windstorms, explosions, riots, natural disasters, sabotage, labor problems, restraints or delays affecting carriers or inability or delay in obtaining supplies of adequate or suitable materials, inability to obtain electrical service, fuel or transportation, or court injunction or order; or
 - iii. Buyer fails to perform any of its obligations in a timely manner, including without limitation if the Buyer fails to make payment for the current or for previous orders in a timely manner.
 - c. Any failure of Delta Star to deliver the Goods or Services on a timely basis shall not constitute a breach of this Agreement and shall not entitle Buyer to any damages for such failure.
5. **Schedule.**
 - a. Delivery dates are estimated and not a guaranteed day of delivery and are based on Delta Star's prompt receipt of all necessary information from Buyer and Buyer's return of approval drawings within two (2) weeks after submittal by Delta Star. Delayed orders are subject to the Delta Star Cancellation and Delay Policy, which is incorporated by reference herein.

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- b. Quoted Service or on-site dates, if any, are subject to confirmation at the time of contract award.
 - c. Quoted lead time for shipments is the time to place the Goods on the carrier or rail car, if applicable, at Delta Star's facility. Delta Star is not responsible for delays in shipment as Delta Star cannot predict the actual time from Delta Star's facility to Buyer's delivery site.
6. **Inspection of Goods.**
- a. Buyer shall inspect the Goods and Services within forty-eight (48) hours of receipt or completion of the Services, as applicable. Buyer shall immediately notify Delta Star in writing of any nonconformity. Buyer will be deemed to have accepted the Goods or Services if Buyer fails to provide such notice, or if Buyer commences use of the Goods or Services. Final acceptance of the Goods and/or Services shall be deemed to have occurred fourteen (14) days after the date the Goods and/or Services are delivered and/or completed unless Buyer notifies Delta Star of a defect in accordance with this paragraph.
 - b. After having been notified of any such failures, Delta Star shall use commercially reasonable efforts to remedy within a reasonable period. If Delta Star is not able to remedy such failures, Delta Star shall replace the Goods at issue or re-perform the Services at issue, which shall be Delta Star's sole liability, and Buyer's sole remedy, for Delta Star's failure to remedy any such failures.
7. **Limited Warranty.**
- a. Delta Star warrants to Buyer that for a period of sixty (60) months from the date of shipment the Goods will materially conform to Buyer's specifications and will be free from significant defects in workmanship and materials. This warranty extends to Services performed by Delta Star for one (1) year from the date of performance.
 - b. Products manufactured by a third party ("Third-Party Product") may constitute, contain, be contained in, incorporated into, attached to or packaged together with, the Goods or Services. Third-Party Products are warranted for one (1) year from shipment or the original equipment manufacturer's warranty, whichever is longer. After the first year of the component part warranty, labor and service costs are excluded.
 - c. **DELTA STAR MAKES NO OTHER WARRANTY WHATSOEVER WITH RESPECT TO THE GOODS OR SERVICES, INCLUDING ANY (a) WARRANTY OF MERCHANTABILITY; OR (b) WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE; WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE.**
 - d. This limited warranty does not apply where the Goods or Services have been: (1) subjected to abuse, misuse, neglect, negligence, accident, improper testing, improper installation, improper storage, improper handling, improper maintenance, abnormal physical stress, abnormal environmental conditions, or use contrary to any instructions issued by Delta Star, including the Delta Star Instruction Manual (DS100); (2) reconstructed, repaired, or altered by persons other than Delta Star or its authorized representative; (3) used with any Third-Party Product, hardware, or product that has not been previously approved in writing by Delta Star; or (4) operated outside of the scope of accepted industry standards and norms.
 - e. To receive warranty coverage, Buyer must: (1) inspect the Goods or Services within forty-eight (48) hours of delivery or performance and notify Delta Star of any observable damage or irregularity; (2) allow Delta Star Field Service to either perform the installation or provide a minimum of three (3) days of Field Service, if applicable; and (3) allow Delta Star Field Service to supervise the move, in the event the Goods or Services are relocated from the original destination after initial delivery.
 - f. Delta Star shall not be liable for a breach of this limited warranty unless: (1) Buyer gives written notice of the defect, reasonably described, to Delta Star within sixty (60) days of the time when Buyer discovers or ought to have discovered the defect; (2) Delta Star is given a reasonable opportunity after receiving the notice to examine such Goods or Services; and (3) Delta Star reasonably verifies Buyer's claim that the Goods or Services are defective.
 - g. Delta Star shall not be liable for a breach of this limited warranty if: (1) Buyer makes any further use of such Goods or Services after giving such notice; (2) the defect arises because Buyer failed to follow Delta Star's oral or written instructions, including the Delta Star Instruction Manual (DS100), as to the storage, installation, commissioning, use, or maintenance of the Goods or Services; (3) Buyer or a third party alters or repairs such Goods or Services, or combines with any Third-Party Product, hardware, or product, without the prior written consent of Delta Star.
 - h. Subject to this Article 7, Delta Star shall either repair or replace such Goods or nonconforming part, or re-perform the nonconforming Services, the method and extent of which rests in the sole discretion of Delta Star. Buyer shall provide clear access to the Goods for truck and cranes, and bear all costs resulting from moving structures and equipment. In the event that such Goods are not able to be repaired in the field and need to be returned to Delta Star's facility, Buyer shall be responsible for all costs related to the transportation, including but not limited to, the cost of transportation to and from Delta Star's facility, removal of any obstructions, and scrapping and/or storage of oil.
8. **Title and Risk of Loss.** Title to the Goods shall pass to Buyer upon Delta Star's receipt of full payment from Buyer. Risk of loss for the Goods shall pass to Buyer upon Delta Star offloading the Goods at Buyer's point of final destination. However, if Buyer chooses a carrier of its choice for delivery and transportation of the Goods, risk of loss shall pass to Buyer upon Delta Star loading the Goods on the carrier. If shipment is delayed at the request of Buyer, at the fault of Buyer, or due to reasons beyond Delta Star's reasonable control, the risk of the loss shall pass to Buyer at the time originally agreed to for delivery. From and after such time, the Goods shall be stored and insured at the expense and risk of Buyer.

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9. **Buyer's Acts or Omissions.** If Delta Star's performance of its obligations is prevented or delayed by any act or omission of Buyer or its agents, subcontractors, consultants or employees, Delta Star shall not be deemed in breach of its obligations under this Agreement or otherwise liable for any costs, charges, or losses sustained or incurred by Buyer, in each case, to the extent arising directly or indirectly from such prevention or delay. Delays that are beyond Delta Star's control shall be subject to Delta Star's Cancellation and Delay Policy.
10. **Intellectual Property.**
 - a. Buyer agrees that it does not have any property interest in Delta Star's intellectual property including, but not limited to, its trademarks, trade names, copyrights, trade secrets, patents, know how, or other proprietary rights of any nature whatsoever and will not attempt to reverse engineer or decompile any such products or disclose or use any such intellectual property.
 - b. Buyer acknowledges that all right, title, and interest in any inventions, developments, improvements, or modifications to equipment or services will remain with Delta Star.
11. **Indemnification.** Buyer assumes all responsibility and liability for injury or damages resulting from its handling, possession, use, or sale of Goods or Services supplied hereunder, including, but not limited to any injury or damage resulting from the use of Goods in Buyer's operations or in combination with other substances or goods, and agrees to hold harmless, defend and indemnify Delta Star from and against all claims, losses, liabilities and expenses (including attorney's fees and other litigation or settlement costs) arising out of such handling, possession, use or sale. The foregoing duty of Buyer to hold harmless, defend and indemnify Delta Star shall not apply to the extent such claim, loss, liability, or expense results from the willful misconduct or gross negligence of Delta Star.
12. **Limitation of Liability.** IN NO EVENT SHALL DELTA STAR BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES ARISING OUT OF OR RELATING TO THE GOODS OR SERVICES SUPPLIED HEREUNDER, NOR SHALL DELTA STAR'S AGGREGATE LIABILITY ARISING OUT OF OR RELATED TO THIS AGREEMENT EXCEED THE TOTAL AMOUNT PAID TO DELTA STAR FOR THE GOODS AND SERVICES, REGARDLESS OF THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT OR OTHERWISE) UPON WHICH THE CLAIM IS BASED, AND NOTWITHSTANDING THE FAILURE OF ANY AGREED OR OTHER REMEDY OF ITS ESSENTIAL PURPOSE. BUYER'S EXCLUSIVE REMEDIES AND DELTA STAR'S ONLY OBLIGATIONS ARISING OUT OF OR IN CONNECTION WITH THE GOOD OR SERVICES, WHETHER BASED ON WARRANTY, CONTRACT, TORT, OR OTHERWISE, SHALL BE THE REPAIR, REPLACEMENT, OR RE-PERFORMANCE OF THE GOODS OR SERVICES GIVING RISE TO SUCH CLAIM.
13. **Compliance with Law.** Buyer shall comply with all applicable laws, regulations, and ordinances. Buyer shall maintain in effect all the licenses, permissions, authorizations, consents and permits that it needs to carry out its obligations under this Agreement.
14. **Confidential Information.** All non-public, confidential or proprietary information of Delta Star disclosed to Buyer in connection with this Agreement, including but not limited to, specifications, samples, patterns, designs, plans, drawings, documents, data, business operations, Buyer lists, pricing, discounts or rebates, whether disclosed orally or written, electronic or other form or media, and whether or not marked, or otherwise identified as "confidential" is confidential. Such confidential information may be used by Buyer solely for the purpose of performing this Agreement and may not be disclosed or copied unless authorized in advance by Delta Star in writing. Upon Delta Star's request, Buyer shall promptly return all documents and other materials received from Delta Star. Delta Star shall be entitled to injunctive relief for any violation of this Section. This Section does not apply to information that is: (a) in the public domain; (b) known to Buyer at the time of disclosure; or (c) rightfully obtained by Buyer on a non-confidential basis from a third party.
15. **Relationship of the Parties.** The relationship of the Parties is that of independent contractors. Nothing contained in this Agreement shall be construed as creating any agency, partnership, joint venture, or other form of joint enterprise, employment, or fiduciary relationship between the Parties, and neither Party shall have authority to contract for or bind the other Party in any manner whatsoever.
16. **Amendment and Modification.** This Agreement may only be amended or modified in a writing stating specifically that it amends this Agreement and is signed by an authorized representative of each Party.
17. **General.**
 - a. This Agreement is governed by, and construed in accordance with, the laws of the State where the Goods are manufactured or Services performed, without regard to its principles of conflicts of laws. Buyer expressly agrees to waive its rights to a trial by jury in any dispute under this Agreement. The Parties agree that all disputes, claims, or controversies arising out of, related to, concerning or pertaining to the Goods manufactured or Services performed, which disputes, claims or controversies the Parties have been unable to resolve by informal methods after undertaking a good faith effort to do so, shall be settled by binding arbitration pursuant to the rules and regulations of the American Arbitration Association. Such arbitration shall be conducted by one arbitrator that is mutually agreed upon by the Parties who is qualified by education, experience or training to render a decision upon the issues in dispute, who has not been previously employed by either Party, and who does not have a direct or

indirect interest in either Party or the subject matter of the arbitration. In the event the Parties fail to mutually agree upon an arbitrator, the arbitration shall be conducted by a panel of three arbitrators having the qualifications set forth in the preceding sentence, one to be selected by each Party and the third arbitrator to be selected by the two arbitrators selected by the Parties. Such arbitration shall be held at a reasonably agreed upon location. The complaining Party shall bear the cost of such arbitration, including the cost of the arbitrator(s). However, the arbitrator(s) shall have the discretion to award to the prevailing party, if any, its reasonable costs and fees. The decision of the arbitrator(s) shall be final and binding upon the Parties. A judgment of any court having jurisdiction may be entered upon the award.

- b. These Terms are between Delta Star and Buyer only. There are no third party beneficiaries of this Agreement and all Services provided hereunder are performed solely for the benefit of Buyer.
- c. Buyer may not assign its rights or obligations hereunder without the prior written consent of Delta Star.
- d. All controversies and claims arising out of or relating to any contract between Delta Star and Buyer, or the breach thereof must be instituted within one (1) year after the occurrence giving rise to the controversy or claim.
- e. The failure of Delta Star to enforce any provision of this Agreement shall in no way be construed as a waiver of such provisions or in any way affect the validity of this Agreement, in part or in full, or affect the right of Delta Star to enforce any other provisions of this Agreement.
- f. If any provision contained in this Agreement or any application thereof shall for any reason be held invalid, illegal or unenforceable by a court of competent jurisdiction, the remainder of the Agreement shall not be affected thereby, and each term and provision shall be valid and enforceable to the fullest extent permitted by law.



BOARD AGENDA REPORT

Date: 12/19/2024

Staff: Alex Brown

SUBJECT: Clear SCADA server replacement

RECOMMENDED ACTION: Consider approval of Sierra Controls clear SCADA server replacement.

BACKGROUND AND/OR HISTORY:

While troubleshooting a division Sierra Controls radio issue, the clear SCADA server locked up. We rebooted the server and Donnell's Dam telemetry reading did not return to service. After multiple attempts to reconnect we reached out to customer support. They were able to remote in and troubleshoot, but were unable to reconnect to the Donnell's Dam RTU. They discovered that hardware errors on the server were the issue. Staff recommend replacement as the old server is at end of life and is no longer supported. This presents a security risk as well as an operational concern.

We recommend approving Sierra Controls as the sole source. They are the OEM of our entire telemetry system, so they are familiar with all the remote sites and how they integrate into the existing system.

FISCAL IMPACT: Capital Project, Included in 2025 budget- \$30,000

ATTACHMENTS: Sierra Controls Quote

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)



PROPOSAL

Sierra Controls, LLC
 5470 Louie Lane Ste. 104
 Reno, NV 89511
 (775) 236-3350

Quote / Project #: 24-7291 / Rev01
 Date: 12/11/2024
 Client Manager: Mark Pipho
 Est. Start Date: TBD

To: TRI-DAM
Attention: Daniel Hogue
Project: ClearSCADA Server Upgrade

Sierra Controls LLC (SC) is pleased to provide this proposal for TRI-DAM in support of the ClearSCADA Server Upgrade.

Item #	Description	Quantity	Unit Price	Est. Tax	Line Total
Item 1	Hardware Pricing Includes: (1) INDUSTRIAL WINDOWS SERVER 2022 STD 16 CORES	1	\$ 7,175.00	\$ 312.11	\$ 7,487.11
Item 2	Software Pricing Includes: (1) Geo SCADA Customer FIRST Standard Level Support Unit	1	\$ 6,885.00	\$ -	\$ 6,885.00
Item 3	Professional & Installation Services Pricing Includes: Systems Administrator Config. / Testing Labor - 10 Hours Systems Administrator & Field Tech Round Trip Travel - 19 Hours Systems Administrator & Field Tech Onsite Labor - 9.75 Hours Sr. Engineer Remote Support Labor - 3 Hours Remote IT Labor - 2 Hours	1	\$ 10,210.00	\$ -	\$ 10,210.00
Item 4	Contingency Pricing Includes: This contingency is to mitigate risks in the construction phase. Use of this contingency will require client approval prior to work being performed. This is estimated at 15% of the project cost.	1	\$ 3,640.50	\$ -	\$ 3,640.50
Project Total:			\$ 27,910.50	\$ 312.11	\$ 28,222.61

Notes & Disclaimers:

Taxable Items: The value(s) shown for Estimated Tax are based on items that are taxable. Depending on state requirements, not all labor is taxable and therefore labor related taxes are estimated based on taxable and non-taxable labor activities.

Additional T&M Work: This proposal represents the complete scope of work to be performed by SC. Any additional requirements, specifications or construction details outside of this proposal are not included and will be billed on a T&M basis as mutually agreed upon by all parties.

Wage Rates: Pricing is based upon SC standard wage rates and does not include any provisions for any type of Prevailing Wage Requirements. Client to notify SC prior to the beginning of work if different or indemnify SC for any loss or penalties assessed if determined otherwise after the execution of this agreement.

Warranty: All equipment manufactured by SC to be under a Limited (1) Year Warranty based upon SC Standard Warranty Terms & Conditions beginning at the time of installation or delivery to client. (Whichever comes first) unless noted otherwise. Warranty is void where no Remote Access is provide or available. Additional Terms & Conditions apply. SC will provide complete warranty terms and conditions upon request. Extended warranties available upon request.

Delivery: Scheduled ARO
Terms: NET 30
FOB: RENO, NV

**RESPECTFULLY SUBMITTED,
 SIERRA CONTROLS, LLC**

Steven Perez - Estimator

This quote is valid for 30 days.

To proceed with this order please sign below with an authorized signature and return.

Signed _____

PO Number _____

Date _____

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Summer Nicotero

SUBJECT: CEATI – Hydro Proposal

RECOMMENDED ACTION: Consider approval of annual membership in CEATI Hydropower Plant Equipment Interest Group

BACKGROUND AND/OR HISTORY:

The Project attends conferences and working group sessions where CEATI is frequently mentioned as a valuable resource. Staff looked into membership to determine if the Project would benefit. Staff found that their Hydropower Plant Equipment and Dam Safety Interest Groups were highly applicable to daily operations. Membership in these groups allows access to an enormous library of maintenance documents, safety materials, and member information exchanges. The attached proposal highlights these benefits in more detail.

As part of our budget proposal this year, the Project will not be filling the Maintenance Lead role and will underfill with a Maintenance Specialist. The savings realized by the vacancy will allow for a one-year trial membership in CEATI to determine the usefulness of this group to the Project. The cost of the maintenance membership is \$29,000 per year. We hope to gain efficiencies in our repairs through extensive training materials, networking with other hydropower agencies, and expert documentation on the maintenance of our plant components. If we find this is a beneficial tool it will help to design and maintain standard operating procedures for our plants and equipment.

In addition, we will discuss the benefits as we progress through the year to determine if the Dam Safety Interest Group would also be a useful resource. The cost of membership in the Dam Safety Interest Group is \$26,000 a year with a discount available for multiple memberships.

Staff recommends approval of the Hydropower Plant Equipment Interest Group for 2025.

FISCAL IMPACT: \$29,000 included in 2025 budget

ATTACHMENTS:

- CEATI Proposal
-

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

Hydropower Plant Equipment Interest Group (HPEIG)

ACTION PLAN FOR 2024 ACTIVITIES

Introduction

This document sets out the Action Plan for 2024 for the activities of the Hydropower Plant Equipment Interest Group.

The Hydropower Plant Equipment Interest Group consists of 76 participant utilities located worldwide. The Hydropower Plant Equipment Interest Group is a collaborative, technology-focused program designed to assist hydroelectric utilities in their efforts to optimize capital and O&M costs, extend equipment life, increase reliability, and reduce outage times for hydro power plant equipment repair and maintenance. In addition, the Hydropower Plant Equipment Interest Group goals include benchmarking and improving efficiency, safety, and environmental performance for hydro plants.

The focus of the Hydropower Plant Equipment Interest Group is to develop new and innovative technological approaches and options to support hydropower personnel in protecting and enhancing the underlying fundamental values of the industry. Additionally, the Hydropower Plant Equipment Interest Group aims to aid in the transitioning workforce by supporting networking, educational and training opportunities.

The Hydropower Plant Equipment Action Plan for 2024 takes its lead from the Hydropower Plant Equipment Strategic Plan. All the activities in the Action Plan are aimed at delivering value to Hydropower Plant Equipment members in the Focus Areas of the Strategic Plan. These Focus Areas are:

- > Hydropower technology
- > Capital & maintenance investment
- > Maintenance programming & reliability
- > Workforce productivity and safety
- > Environmental performance

Each of the activities in the Action Plan has been identified by Hydropower Plant Equipment Interest Group members as important to them in their Hydropower Plant Equipment practice. All activities in the Hydropower Plant Equipment Interest Group are driven by its members.

The following section presents the 2024 Hydropower Plant Equipment Interest Group activities. The delivery dates may have to be adjusted during 2024 due to various circumstances.

Appendix A provides a list of ongoing projects and accepted proposals of activities. Appendix B provides the current list of all the proposed topics of interest made by Hydropower Plant Equipment Interest Group members.

Hydropower Plant Equipment Interest Group 2024 PROGRAM	
Overview of Activities	Date
<p>Q1 Winter Conference Call</p> <p><i>Main Objectives: Review of 2024 plans and activities</i></p> <ul style="list-style-type: none"> > 2024 CPF program > Spring meeting agenda > Working groups and webinars <p>Meeting minutes and presentation slides here</p>	<p>January 23</p>
<p>Gates Working Group Q1 Call</p> <p><i>Main Objectives: Update on program activities & pre-meeting call</i></p> <ul style="list-style-type: none"> > Spring meeting agenda > Member presentation – Fortum > Featured roundtable discussion <p>Meeting minutes and presentation slides here</p>	<p>February 6</p>
<p>hydroAMP Q1 Winter Conference Call</p> <p><i>Main Objectives: Review of 2024 plans and activities</i></p> <p>Meeting minutes here</p>	<p>February 21</p>
<p>Generation Working Group Training Workshop Part 1 – NERC Standard MOD-025-2</p> <p><u>Topic:</u> MOD-025 Confirmation of Reactive Capability</p> <p><u>Presenter:</u> Kestrel Power Engineering</p> <p><i>Main Objectives:</i></p> <ul style="list-style-type: none"> > Physical limitations of generator and auxiliary equipment > Voltage versus reactive limitations > Considerations for Inverter Based Resources > Practical test guidelines for single and multi-unit plants > Review of MOD 025 form and regional variations > Review of common issues and mistakes <p>Recording and presentation slides here</p>	<p>February 29th</p>
<p>Gates Spring 2024 Working Group Meeting</p> <p>Meeting minutes, recordings and presentation slides here</p>	<p>March 18th</p>
<p>Spring 2024 Hydropower Conference</p> <p>Conference proceedings here</p>	<p>March 19th – 20th</p>

<p>Hydro Plant Equipment Spring 2024 General Meeting</p> <p>Meeting minutes, recordings and presentation slides here</p>	<p>March 21st & 22nd</p>
<p>Generation Working Group Training Workshop Part 2 – NERC Standard MOD-026-1</p> <p><u>Topic:</u> MOD-026 Confirmation of Excitation Models and Performance</p> <p><u>Presenter:</u> Kestrel Power Engineering</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Excitation requirements imposed by the generator and by the power system ➤ Common designs: bus-fed static, rotating dc systems, rotating ac systems ➤ Automatic Voltage Regulation (AVR) ➤ IBR Plant Voltage Controls ➤ Additional functions to be tested: reactive compensation, power system stabilizers (very brief intro) ➤ Test instrumentation and procedures ➤ Documentation requirements ➤ ISO imposed performance (tuning and testing) <p>Recording and presentation slides here</p>	<p>March 28th</p>
<p>Technical Webinar</p> <p><u>Topic:</u> Approaches Towards Improved Accelerated Cavitation Testing</p> <p><u>Presenter:</u> Christopher Smith and Kenneth Ross of Pacific Northwest National Laboratory (PNNL)</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Published accelerated cavitation testing results show significant variation in erosion rates even for base materials that nominally have repeatable material properties. This lack of consistency in results has been observed at Pacific Northwest National Laboratory during cavitation testing of calibration samples using an ASTM G134 (Standard Test Method for Erosion of Solid Materials by Cavitating Liquid Jet) compliant cavitation testing machine. A post campaign lessons learned analysis revealed opportunities for improvement in test methodology. Subsequent analysis and engineering was followed by instrumentation, hardware and control upgrades for ASTM G-134 test equipment at PNNL resulting improvement in repeatability Comparisons of cavitation performance and consistency of calibration samples from before and after the improvements were implemented will be presented. Recommended practices to enable more consistent and reliable cavitation testing results will also be presented. <p>Recording and presentation slides here</p>	<p>April 16th</p>

<p>Generation Working Group Training Workshop Part 3 – NERC Standard MOD-027-1</p> <p><u>Topic:</u> MOD-027 Verification of Turbine/Governor and Load Controls</p> <p><u>Presenter:</u> Kestrel Power Engineering</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Common elements of utility prime movers Steam, gas, hydraulic and wind turbines ➤ Speed governing of utility generation (brief intro) ➤ Most important characteristics: droop and deadband ➤ Methods of confirming unit response to system frequency variations (disturbance recording/staged tests) <p>Recording and presentation slides here</p>	<p>April 25th</p>
<p>hydroAMP Q2 Conference Call</p> <p><u>Main Objectives:</u> <i>Review of 2024 plans and activities</i></p> <p>Meeting minutes here</p>	<p>June 3rd</p>
<p>Technical Webinar</p> <p><u>Topic:</u> Hydro Generators’ Brushes, Brush Holders & Slip Ring Maintenance Best Practices</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Gradually the energy market is heading toward operating patterns involving more cycling and larger excitation current variations. Change in operating patterns can affect or amplify improper collector slip ring and brush gear adjustments. Conductive carbon dust contamination presently accounts for more than 35% of the contamination found in large hydro generators. A better control of this contamination is possible which can help improve unit availability and reduce maintenance. This presentation intends to present the best practices in carbon brushes, brush holders and slip rings maintenance to help owners minimize contamination. <p><u>Presenter:</u> Hydro-Quebec & GE Renewable Energy</p> <p>Recording and presentation slides here</p>	<p>June 11th</p>

<p>Potential Project Discussion</p> <p><u>Topic:</u> Field Testing of an Alternative Generator Fire Suppression System</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Potential project/collaboration with USBR for Field Testing of an Alternative Generator Fire Suppression System. If approved by members, we aim to secure funding in July through discretionary funding and the HPE Common Project Funds. <p><u>Presenter:</u> U.S. Bureau of Reclamation</p> <p>Presentation slides here</p>	<p>June 25th</p>
<p>Technical Webinar</p> <p><u>Topic:</u> Lessons Learned from Visualizing Maintenance History and Operational Performance Data</p> <p><u>Presenter:</u> Manitoba Hydro</p> <p><u>Focus Area(s):</u> Data Management and Analysis</p> <p><u>Main Objectives:</u> This presentation shares lessons learned from the experiment of visualizing maintenance and operational historical data that are available from CMMS and GPRS.</p> <p>Presentation slides here</p>	<p>July 8th</p>
<p>Q3 Call</p> <p><u>Main Objectives:</u> <i>Review of 2024 plans and activities</i></p> <ul style="list-style-type: none"> ➤ 2024 CPF program ➤ fall meeting agenda ➤ Working groups and webinars <p>Presentation slides and meeting minutes here</p>	<p>July 24th</p>
<p>Technical Webinar</p> <p><u>Topic:</u> HPEIG Project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment – OEM Session—Excitation</p> <p><u>Presenter:</u> Basler</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ As part of the ongoing HPEIG project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment, we will be holding an OEM session from Basler regarding excitation. <p>Recording and presentation slides here</p>	<p>July 30th</p>

<p>Roundtable Discussion</p> <p><u>Topic:</u> Maintenance Program Benchmarking Survey Brainstorming Session Pt 1</p> <p><u>Presenter:</u> CEATI</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Review the benchmarking survey with HPE SMEs before it is sent out to the entire membership. <p>Meeting minutes here</p>	<p>August 15th</p>
<p>Working Group</p> <p><u>Topic:</u> Kaplan Turbine Working Group September Meeting</p> <p><u>Presenter:</u> CEATI</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Scope the Kaplan Turbine Oil Leak Elimination Workshop <p>Meeting minutes here</p>	<p>September 11th</p>
<p>Project Initiation Call</p> <p><u>Topic:</u> 03119 Alternative Generator Fire Suppression System Efficacy</p> <p><u>Presenter:</u> USBR</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Confirm project monitors & go over project scope and schedule <p>Project documentation here</p>	<p>September 11th</p>
<p>OEM Interface Committee 2024 Workshop (Exciters Part II) – Forth Worth, TX</p> <p><u>Presenters:</u> Voith, ABB & Reivax</p> <p>Presentation slides + recording here</p>	<p>September 17th</p>
<p>Hydro Plant Equipment Fall 2024 General Meeting – Forth Worth, TX</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> • Joint session with Asset Management in Generation • Asset Failure Curves • General meeting topics TBD <p>Presentation slides + meeting minutes here</p>	<p>September 18th & 19th</p>

<p>Technical Webinar</p> <p><u>Topic:</u> HPEIG Project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment – OEM Session—Governors Controls</p> <p><u>Presenter:</u> L&S</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ As part of the ongoing HPEIG project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment, we will be holding an OEM session from L&S regarding governors controls. <p>Presentation slides + recording here</p>	<p>September 26th, 2024</p>
<p>hydroAMP Q3 Conference Call</p> <p><u>Main Objectives:</u> <i>Review of 2024 plans and activities</i></p>	<p>October 15th</p>
<p>Roundtable Discussion</p> <p><u>Topic:</u> Maintenance Program Benchmarking Survey Brainstorming Session Pt 2</p> <p><u>Presenter:</u> CEATI</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Review the benchmarking survey with HPE SMEs before it is sent out to the entire membership. <p>Register here</p>	<p>October 17th</p>
<p>Working Group</p> <p><u>Topic:</u> OEM Interface Committee October Meeting</p> <p><u>Presenter:</u> CEATI</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Review recent OEM Workshop on Exciters (Fort Worth, TX) and discuss next steps for working group. <p>Register here</p>	<p>October 23rd</p>

<p>Generation Working Group Training Workshop Part 4 – NERC Standard PRC-019</p> <p><u>Topic:</u> PRC-019 Excitation Limiters</p> <p><u>Presenter:</u> Kestrel Power Engineering</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ Will cover excitation limiters and their relation to generator and system capability, coordinating excitation limiters and protective relays as well as test and documentation requirements. <p>Register here</p>	<p style="text-align: center;">October 24th</p>
<p>Hydro Plant Equipment End of Project Webinar</p> <p><u>Topic:</u> HPEIG Project #03/110 Environmentally Acceptable Oil Test Program</p> <p><u>Presenter:</u> PowerTech</p> <p><i>Registration details to be provided closer to event date</i></p>	<p style="text-align: center;">November 2024 <i>Date TBD</i></p>
<p>Technical Webinar</p> <p><u>Topic:</u> HPEIG Project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment – OEM Session— Governors & Excitation</p> <p><u>Presenter:</u> Reivax</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ As part of the ongoing HPEIG project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment, we will be holding an OEM session from Reivax regarding governors & excitation. <p>Register here</p>	<p style="text-align: center;">December 2nd</p>
<p>Technical Webinar</p> <p><u>Topic:</u> HPEIG Project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment – OEM Session—Generators, Excitation, Governors, and Turbines</p> <p><u>Presenter:</u> GE</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ As part of the ongoing HPEIG project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment, we will be holding an OEM session from GE regarding generators, excitation, governors, and turbines. <p>Register here</p>	<p style="text-align: center;">December 5th</p>

<p>Technical Webinar</p> <p><u>Topic:</u> HPEIG Project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment – OEM Session—Generators & Turbines</p> <p><u>Presenter:</u> Andritz</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ As part of the ongoing HPEIG project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment, we will be holding an OEM session from Andritz regarding generators and turbines. <p><i>Registration details to be provided closer to event date</i></p>	<p style="text-align: center;">January 2025 Date TBD</p>
<p>Technical Webinar</p> <p><u>Topic:</u> HPEIG Project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment – OEM Session—Governors, Generators and Turbines</p> <p><u>Presenter:</u> Voith</p> <p><u>Main Objectives:</u></p> <ul style="list-style-type: none"> ➤ As part of the ongoing HPEIG project #03/111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment, we will be holding an OEM session from Voith regarding TBD. <p><i>Registration details to be provided closer to event date</i></p>	<p style="text-align: center;">February 2025 Date TBD</p>

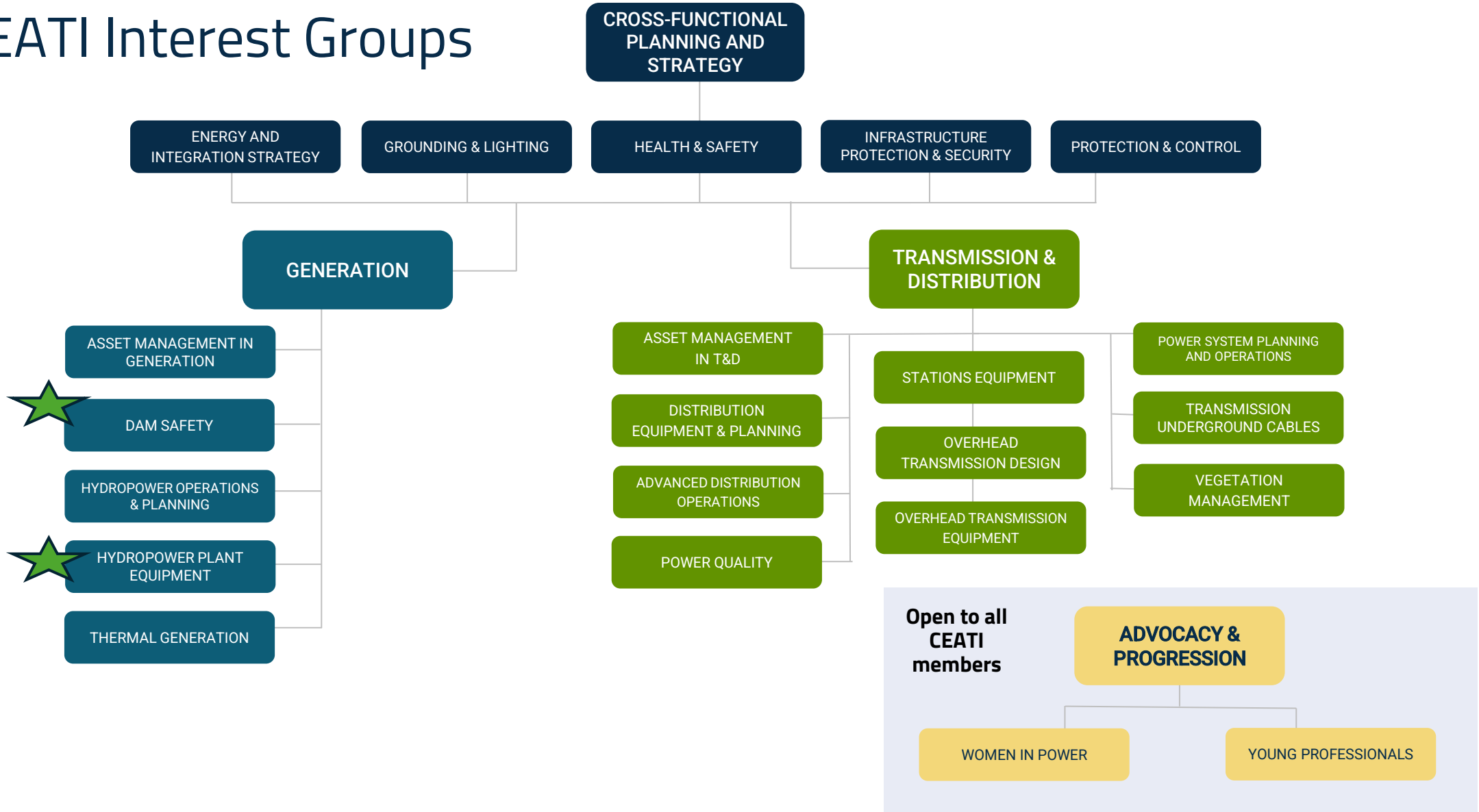
November, 2024

CEATI 

TRI-DAM Project & CEATI *2025 Partnership Proposal*



CEATI Interest Groups



Unique CEATI Network Benefits That Drive ROI



Global Network of Utilities

- Network of over 175+ internationally based utilities
- Members from North America, Europe, Asia, Africa, and Australia/Oceania
- Members utilize information exchanges and events to share knowledge, insights and best practices



Cross-Functional Activities

- CEATI members collaborate with peers in their interest group (e.g. Asset Management) in addition to other programs
- Example: Battery Storage Workshop (Asset Management, Energy Strategy, and Power System Planning)



Collaborative R&D

- CEATI facilitates collaborative R&D projects helping members to save time, money, and gain shared insights
- On average, members contribute 1/34th of total project costs (varies by size of group)

How Members Leverage CEATI

Day-to-Day, Operational Support



Expert Guidance & Networking

- Meet with CEATI Technical Advisors and consultants
- Benchmark against peers by submitting inquiries for response



Technical Resources

- Attend conferences, webinars, and training workshops
- Access our library of 2,200+ reports and guidance documents

Long-Term Planning and R&D



Collaborative R&D Projects

- Members select projects to pursue
- Multiple funders for each project
- CEATI provides full-scale project management



Training & Succession Planning

- CEATI trainings are open to any staff at member organizations
- Topics align to members' priorities

Overview of CEATI's Project Process



Pilot Proposal for TRI-DAM Project

Term: December 1, 2024 - Dec 31, 2025

Annual Membership Cost:

- Dam Safety: \$26,000
- Hydropower Plant Equipment: \$29,000

****If 2+ programs are confirmed by 12/1/24, we will extend a 13-month introductory term for the cost of 12 months and apply a 10% discount to both groups. Flexible Invoicing Options Available to align with Tri-Dam's Fiscal Year/Budgeting Cycles.**

As a reminder, all programs are annual corporate memberships, inclusive of all research (entire catalog of reports, standards, guidelines, etc.) tools, benchmarking, and networking events (past and future).

Suggestions for Budgeting for CEATI

- **Training, certification, consulting, staff extension, succession and workforce planning budgets** (Women in Power and Young Professionals Advocacy Groups, Training programs members can implement off the shelf, access to an RFI capability to the network of 220+ utilities and vast network of experts for custom questions, all the reports are very practical and useful for training, upskilling, knowledge transfer and experience sharing – available to everyone in your company)
- **R&D/innovation/“pilot” budgets – CEATI is a critical technical and R&D support resource that minimizes risk and saves time and money in big projects and investments.** It is critical to gather different and new points of view to make decisions and optimize resources. However, many utilities have insufficient budgets, manpower and skill sets to perform R&D in-house. CEATI is a highly competitive, cost-effective option for utilities to invest in R&D by sharing the costs among members.
- **Capitalize the cost/capital spending program (diligence, studies, etc) –take pressure off O&M budget (clients typically sign multi-year agreements and pay upfront or annually).** For many members, the CEATI cost can be associated with a capital project and will be submitted for recovery at the same time as the application to the PUC. Typically, there is a reasonable rationale for this expense plus this cost is generally marginal for large projects. Most large capital projects are focused on large construction (rehab) projects / innovation and demonstrate the financial value. (i.e., their program has 100 new transformers, the information CEATI has can save them 10% on each transformer, therefore collectively they can save \$\$\$ on the project or the operation).
- **O&M budgets**
- **External communications/branding/regulatory influence:** CEATI is a top-tier research organization that provides an exclusive forum for utilities to collaborate, benchmark and learn from others about best practices and solutions to common challenges.



October 2024

CEATI

Dam Safety



Current Members of Dam Safety

Membership at a Glance

85 Members

9 Countries Represented

86 Collaborative R&D Projects Completed

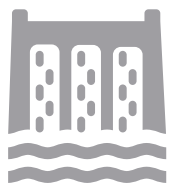
- Algonquin Power and Utilities
- Ameren Corporation
- American Electric Power (AEP)
- Arkansas Electric Cooperative Corporation – new 2024**
- Avangrid Networks
- Axpo
- BC Hydro
- Brookfield BRP Holdings (Canada) Inc.
- Bui Power Authority
- California Department of Water Resources
- Centralia City Light
- Chelan County Public Utility District
- CMS Energy
- Constellation Energy Corporation
- Denver Water
- Dominion Energy
- Duke Energy
- Eagle Creek Renewable Energy
- East Bay Municipal Utility District
- Energiforsk
- Entergy Services
- Environment Agency
- Eugene Water and Electric Board
- Federal Energy Regulatory Commission (FERC)
- FortisBC Inc.
- Four Lakes Task Force – new 2024**
- Genesis Energy
- Grand River Conservation Authority (GRCA)
- Grand River Dam Authority (GRDA)
- Grant County Public Utility District
- Great River Hydro
- Hetch Hetchy Water and Power
- Hydro Tasmania
- Hydro-Quebec
- Idaho Falls Power
- Idaho Power Company
- Landsvirkjun
- Lewis County PUD
- Louisville Gas & Electric and Kentucky Utilities (LG&E and KU)
- Manawa Energy
- Manitoba Hydro
- Merced Irrigation District
- Mercury Energy
- Meridian Energy Ltd.
- Ministry of Quebec – new 2024**
- Minnesota Power
- New Brunswick Power
- New York Power Authority
- Newfoundland and Labrador Hydro
- NorthWestern Energy
- Nova Scotia Power Inc.
- Oglethorpe Power Corporation
- Ontario Power Generation
- Pacific Gas and Electric Company
- PacifiCorp
- Patriot Hydro
- Placer County Water Agency
- Portland General Electric
- Rev Renewables
- Rio Tinto Alcan
- Sacramento Municipal Utility District
- Santee Cooper
- SaskPower
- Seattle City Light
- Severn Trent Water Ltd
- Snowy Hydro Limited
- Southern California Edison
- Southern Company
- South Feather – new 2024**
- Tacoma Power
- Tennessee Valley Authority (TVA)
- Thames Water Utilities
- TransAlta Corporation
- Turlock Irrigation District
- U.S. Army Corps of Engineers
- U.S. Bureau of Reclamation
- U.S. Department of Energy
- Yuba Water Agency
- Yukon Energy Corporation

Dam Safety Focus Areas and sub-topics



Assessment, monitoring and management of aging infrastructure

- Inspection and evaluation of performance
- Solutions for maintaining aging infrastructure when original design plans aren't always available or accurate
- Monitoring techniques and new technology available for inspection and monitoring of dams
- Utilizing new technology, including member experiences, challenges with implementation, and building a business case to upper management & stakeholders



Challenges associated with changing operating conditions and extreme loading conditions

- Impacts of changing operating requirements, including increased wear & tear on components such as gates
- Impacts of climate change on dams
- Extreme events and their impacts on dams, including but not limited to floods, includes droughts, wildfires...
- Preparation & mitigation for extreme events
- Risk-informed decision making



Changes in the delivery models for dam safety oversight & services

- Communicating risk
- Mitigating risk
- Regulatory compliance
- Comprehensive assessments
- Training and workforce planning/management



Understanding of dams as systems





- Understanding the dam system as a whole – looking at the big picture
- Working with and collaborating with other departments within utility
- Factors contributing to incidents; preventing future incidents
- Identifying and analyzing potential failure modes
- Unlikely combinations of likely events



Public safety and emergency planning

- Signage around dams & reservoirs for public safety
- Communicating to stakeholders and the public
- Understanding and accounting for human factors
- Mitigation of failure & preventing future incidents
- Communicating risk

Utility-Only Discussions: Recent Topics of Interest

Topic	Highlights
<p>Public Safety & Risk Management</p> 	<ul style="list-style-type: none"> > Risk Informed decision making > Factors contributing to risk <ul style="list-style-type: none"> > Human factors – how are they addressed within other industries? > Design element factors > Environmental factors > Risk assessment methods & risk management > Communicating risk & safety to stakeholders as well as the general public
<p>Gates</p> 	<ul style="list-style-type: none"> > Decision making around gate refurbishment vs. replacement > Instrumentation and monitoring of gates > Inspection and maintenance of gates > Seismicity & its effects on gates > Building cost into project planning
<p>Extreme Events</p> 	<ul style="list-style-type: none"> > How to predict extreme events – including but not limited to floods, includes droughts, wildfires... <ul style="list-style-type: none"> > Having to depend on historical data to predict extreme events > Preparation & mitigation > Communicating to stakeholders during an event, using the media to communicate to the public > Recent dam failures in Norway and Libya
<p>Instrumentation & Monitoring</p> 	<ul style="list-style-type: none"> > New technology used for instrumentation and monitoring > Use of drones and underwater ROVs for inspection and monitoring > Experience with survey data and apps for instrumentation > Using PowerBI

Dam Safety Highlights: Working Groups



> DS & HOP Climate Change Working Group



Looks at Climate Change from both a Dam Safety and Hydropower Operations & Planning perspective and the impact it can have on both groups

> Failure Modes Working Group



Primary objective is to assess the use of potential failure modes analysis in assuring the safety of dams which are critical elements in the generation of power by hydropower entities

> Seismic Working Group



Investigates and monitors seismic activity and the effect it has on dam structures – both long-term and short-term

> FERC Working Group



Looks at member experiences with FERC regulations and how comprehensive assessments are being carried out given the revised regulations. Members share their experiences as well as hold discussions with FERC

> Emergency Action Plans (EAP) Working Group



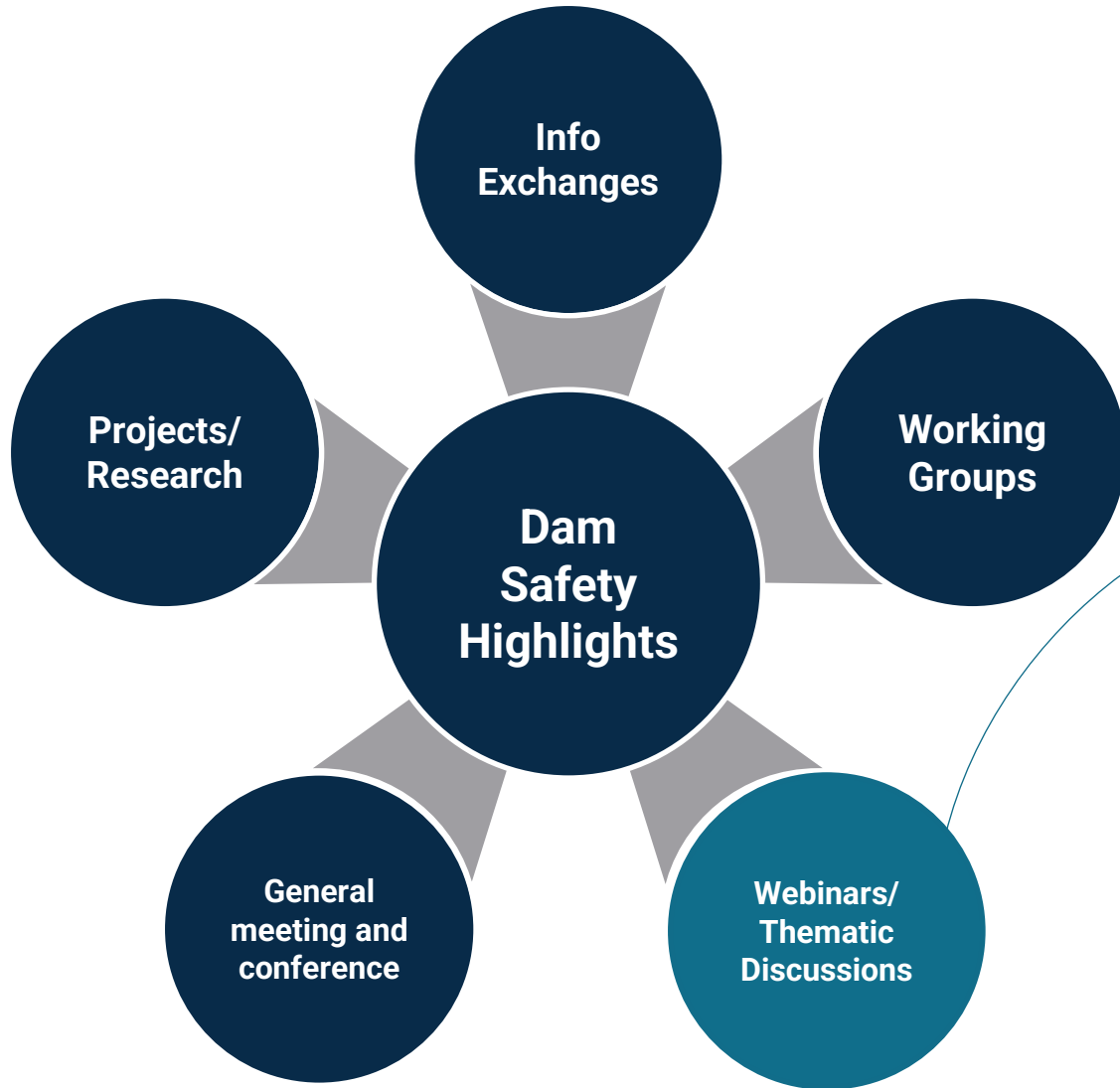
Reviews emergency action plans that are either in place or are being put in place. Reviews how risk is communicated to the public

> Gates Working Group



Aims to address issues and topics related to all mechanical, electrical, protection & operating systems related to head gates, spill gates, operating systems, valves and low-level outlets such as log sluices

Dam Safety Highlights: Webinars



2024 Webinars*: Recently Completed

- > April 11th, 2024: [SSHAC Evaluation of the Seismic Fragility for an Embankment Dam](#)
- > April 18th, 2024: [Observations on Initial Applications of LifeSim to a FERC L2RA](#)
- > April 29th, 2024: [I've Got Your Dam Metrics](#)
- > May 8th, 2024: [Communicating Risk to the Public - FEMA and USACE](#)
- > July 13th, 2024: [Community Responses to Risk](#)
- > July 23rd, 2024: 0250 [Enhanced Surveillance and Monitoring Techniques for Concrete Dams – end of project webinar](#)
- > August 14th, 2024: [Wareham Spillway Interim Repair Project – Challenges, Lesson Learnt in One of the Remotest and Coldest Region of Yukon, Canada](#)
- > August 27th, 2024: [US NASEM Study Update – Modernizing Probable Maximum Precipitation Estimates—joint with HOP](#)

***Note all virtual sessions are recorded and available to watch on-demand via the MyCEATI Member Portal**

Dam Safety Highlights: Information Exchanges



2024

- Funding Non-power Activities in Hydro
- Floating Debris Management Form
- New Boat Procurement for Buoys Layout and River Inspections
- Non-destructive testing alternatives used to map subsurface cracks
- Procurement of Large Diameter Steel Penstocks
- Comprehensive Public Safety Around Dams (PSAD) signage maps
- Dam Failure Outdoor Warning Siren
- Concrete Repairs in Intake or Scroll Case Area of Chickamauga Unit 1
- Supplier for Stop Log Rectangular and "J" Seal Materials

Dam Safety: General Meeting and Conference

Hydropower Conference 2025

Mar 25 - Mar 26, 2025

> Upcoming:

- > March 24th, 2025: DS General Meeting— *Palm Springs, CA*
- > March 25th – 26th, 2025: Hydropower Conference— *Palm Springs, CA*
- > March 27th, 2025: DS Workshop on Functional Block Diagrams for Understanding Dam Systems (project #0260)— *Palm Springs, CA*
- > March 28th, 2025 (AM): Joint DS/HOP Climate Change Working Group – *Palm Springs, CA*

> Completed:

- > September 17th : Dam Safety Fall 2024 General Meeting – *Fort Worth, Texas*
- > September 18th, 2024: Dam Safety & Asset Management joint session – *Fort Worth, Texas*



Dam Safety Highlights: Projects/Research

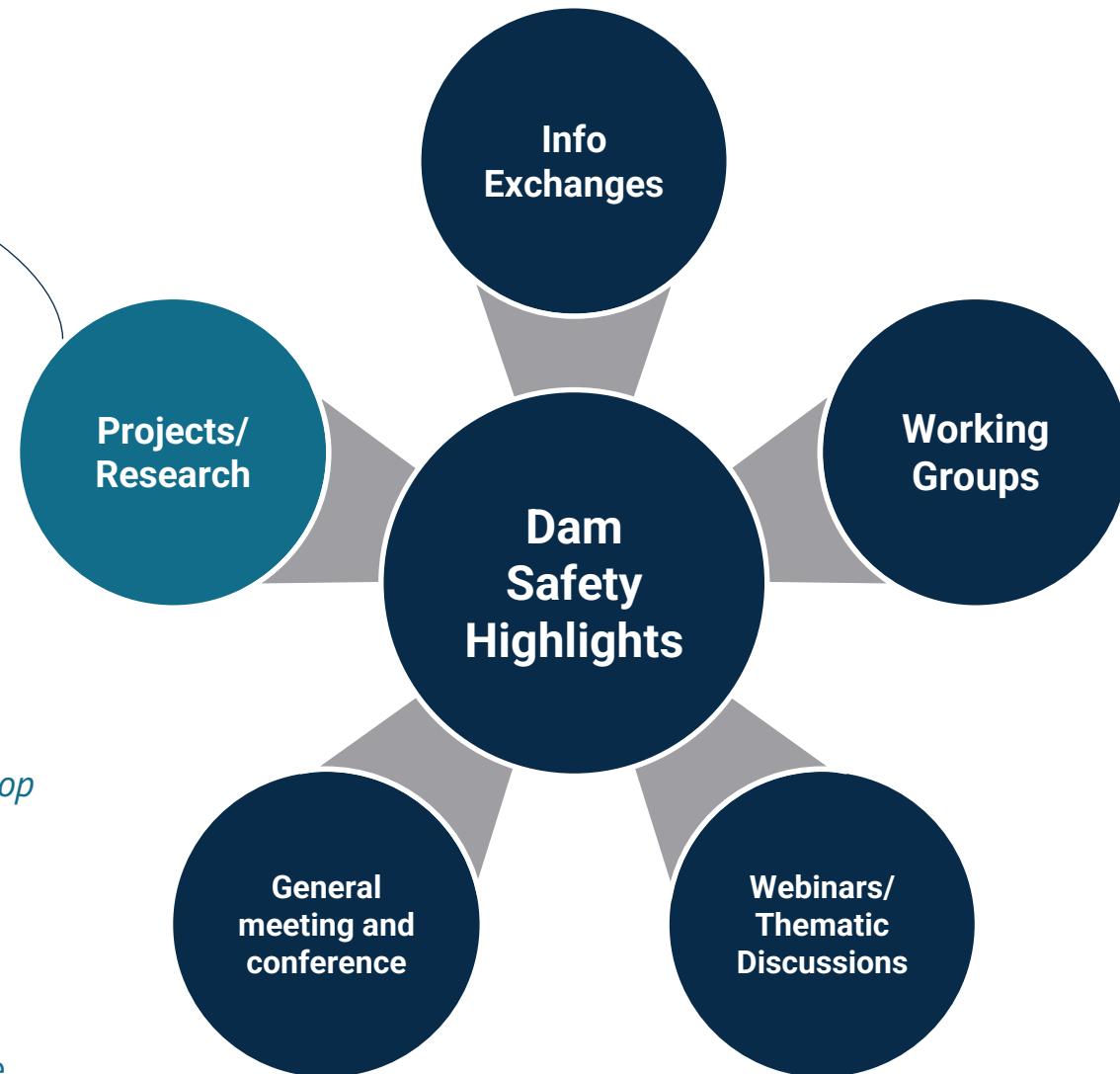


Recently Published

- > [#03/108 Gates Inspection & Maintenance Guide](#)
- > [#0252 Estimating Inflows and Associated Uncertainties](#)
- > [#0253 Best Practices for Assessment of Existing Spillways](#)
- > [#0254 Inundation Mapping Guidance](#)
- > [#0256 Dam Safety Performance Monitoring and Data Analysis Management](#)

Ongoing

- > [#0258 DSMM Benchmarking Database Update with DSIG Member Results](#)
- > [#0259 Characterization of Seismic Hazard and Ground Motions for Analysis of Concrete Dams – workshop to be scheduled Q2 2025](#)
- > [#0260 Functional Block Diagrams for Understanding the Dam System – Workshop scheduled for March 2025](#)
- > [#0261 DSMM Facilitator Tools for running DSMM Evaluations](#)
- > [#03114 Gates Refurbishment vs. Replacement](#)
- > [#03112 Identification of Instrumentation and Monitoring Requirements for Gate Systems](#)



Dam Safety Maturity Matrices

- Set of 12 matrices covering all elements of a dam safety program
- Tool for evaluating and benchmarking dam safety programs
- Developed with input from over 65 dam owners worldwide
- Owner dam safety program audits using the matrices





ASSESSMENT OF EXISTING SPILLWAYS

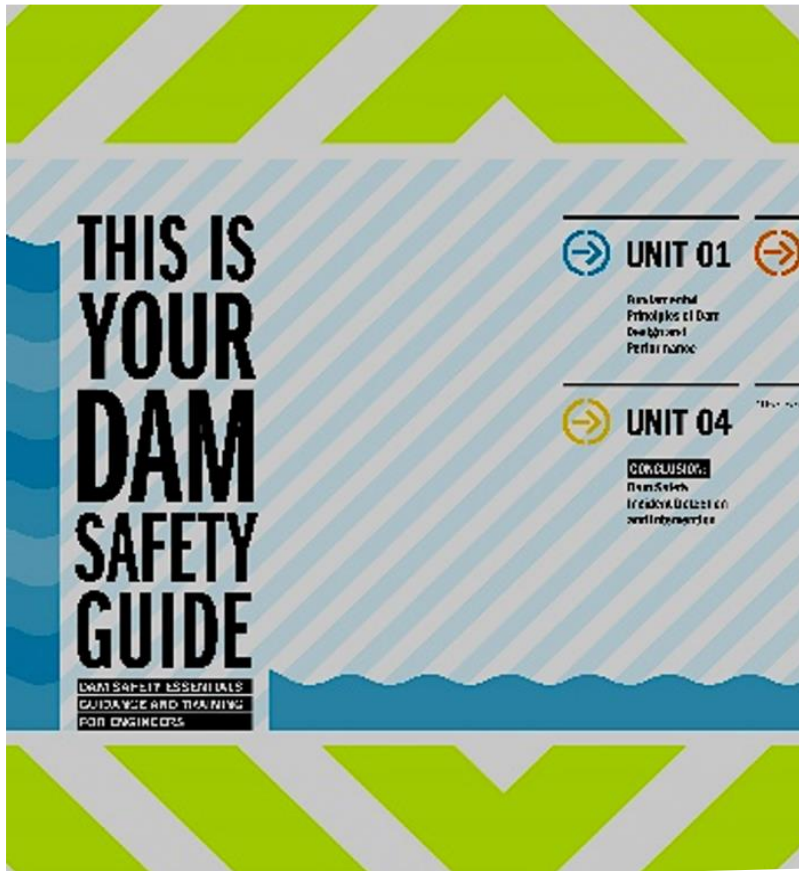
- > **Objectives:**
 - > Provides best practices for performing hands-on inspections and assessments of existing spillways for dams & current state of practice for spillway assessments
 - > Evaluation provides engineers' interpretation of which observations are most important, why they are important, and a summary of their recommendations listed in order of priority

DAM SAFETY PERFORMANCE MONITORING AND DATA MANAGEMENT

- > **Objectives:**
 - > Documents best practices for dam surveillance, inspection, instrumentation, data collection, data analysis, and data management for performance and interpretation as they relate to maintaining a dam's safety.
 - > The concepts of risk assessment and risk management are introduced as a way to estimate the benefits of a dam safety monitoring program.

INUNDATION MAPPING

- > **Objectives:**
 - > Survey the various sources of guidance for preparing inundation maps and produce a comprehensive guidance document for best practices in the development and use of inundation maps.
 - > Help dam owners generate inundation maps that are acceptable to regulators & first responders in emergencies



DAM SAFETY TRAINING FOR PLANT OPERATORS

- Covers dam basics, dam failure, surveillance and monitoring, and mitigating dam failure and flood emergencies
- Guidance Document
- PowerPoint Training Files (customizable)
- Facilitator Guides
- Inspection Checklists

DAM SAFETY ESSENTIALS FOR ENGINEERS

- Covers design and structural characteristics of dams and other water retainage structures, potential failure modes and surveillance and monitoring
- Guidance Document
- 2 eLearning modules
- PFMA Training Workshop materials (customizable)

A wide-angle photograph of a large industrial hydroelectric power plant. The scene is filled with massive, cylindrical turbines arranged in a long row. Each turbine is surrounded by a complex network of metal walkways and railings. The floor is polished and reflects the overhead lights. In the background, a large open bay door allows bright light to enter the facility. The overall atmosphere is one of a well-maintained, high-tech industrial environment.

Updated as of October 2024

CEATI Hydro Plant Equipment

Utility-Only Discussions: Recent Topics of Interest

Topic	Highlights
Condition Assessment, Maintenance Planning and Best Practices	<ul style="list-style-type: none"> ➤ Asset Health Indices and performance indicators ➤ Asset Management Buy-in from Engineering ➤ Maintenance, Life Cycle Assessments ➤ Small Hydro Maintenance ➤ HydroAMP ➤ Risk Curves, Failure Curves on Components, ➤ Data Analytics in Maintenance Programs: When to Intervene and What to Do <p><i>HPE projects of interest: 0367 HydroAMP Condition Assessment Guide and 0380 Hydro Generator - General Maintenance and Inspection Guide</i></p>
Overhauls & Refurbishments	<ul style="list-style-type: none"> ➤ Problems with Refurbishment of Equipment ➤ What Equipment are you Adding. ➤ Overhaul Programs to Increase Turbine Power (up to 40% Increase) ➤ Overhauls on 10 – 15 MW Units ➤ Refurbishment Criteria and Performance Criteria ➤ Upgrading to add more Capacity into the System ➤ Modernization Efforts <p><i>HPE projects of interest: 0354 Mechanical Overhaul Guide for Hydroelectric Turbine Generators and 0385 Electrical Overhaul Guide for Hydroelectric Turbine Generators</i></p>

Topic	Highlights
Hydro Generator Components and Operational Concerns	<ul style="list-style-type: none"> ➤ Situations/Conditions that Make Units Vibrate ➤ Kaplan Blades ➤ Oil Free Kaplan Units ➤ Testing on Greaseless Kaplan Bushings ➤ Hydraulic Transient Analyses ➤ Distributing Valves ➤ Core Replacement ➤ Refurbishment of Turbine Isolation Valves ➤ Limiters for Dangerous Zone Operations <p><i>HPE projects of interest: 0373 Hydro Unit Stator Core and Rotor Pole Replacement/ Refurbishment Criteria</i></p>
Safety Practices	<ul style="list-style-type: none"> ➤ Alarm Management in Control Room ➤ Electrical Safety (i.e. Arc Flash and Grounding) ➤ Arc Resistance Capabilities of Excitation Transformers ➤ Transformers/Switchgear Fences, including transformers located on dams ➤ Lightning and Grounding <p><i>HPE resources of interest: Workshop on Alarms Management and Remote Operations Session</i></p>

Updated Hydro Plant Equipment Focus Areas and sub-topics



Hydropower Technology

- Diagnostic tools, monitoring equipment for predictive maintenance
- New designs, products
- Manufacturing process enhancements
- Inspection and testing innovations
- Repair techniques
- Integration of renewables



Capital and Maintenance Investment

- Development of quantifiable and qualitative experience databases
- Risk management analysis
- Enhancing asset life optimization models through more accurate condition assessment tools



Maintenance Programming and Reliability

- Technology-based tools to help participants identify unproductive or uneconomic assets
- Methods to optimize maintenance planning, repair and rehabilitation techniques and maintenance routines



Workforce Productivity and Safety

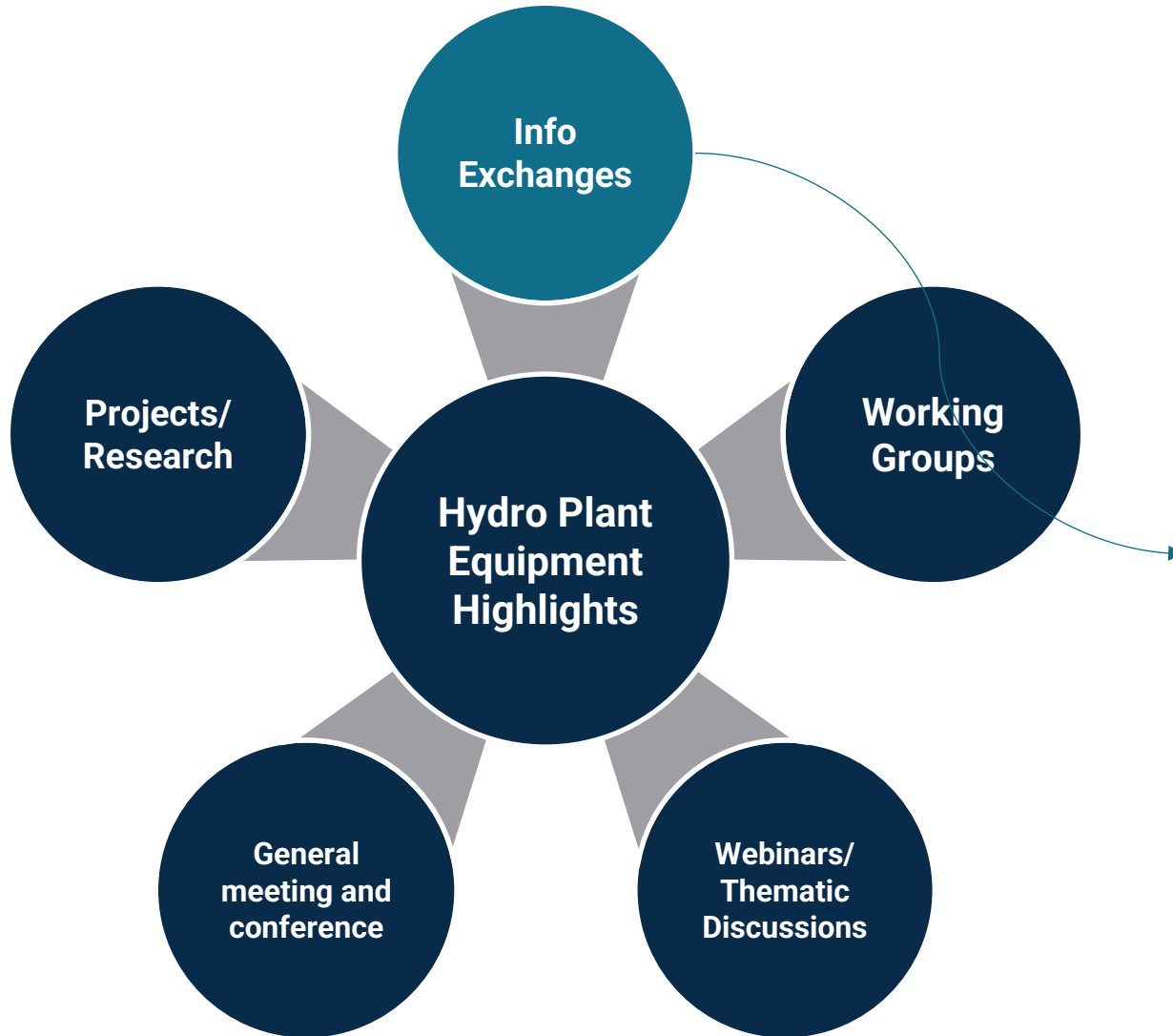
- Guidelines for the best practices of performing critical activities such as inspections, maintenance, overhauls, rewinds
- Training tools and knowledge transfer for all staff levels
- Fire protection



Environmental Performance

- Fish passage
- Environmentally acceptable oils
- Water quality
- Invasive species

Hydro Plant Equipment Highlights: Information Exchanges



2024 (Pt 1)

- > [Shaft Seal – Tacoma Power](#)
- > [Supplier for Stop Log Rectangular and “J” Seal Materials - TID](#)
- > [Draft Tube Inspection Platform Design – SMUD](#)
- > [Calculating Performance and Maintenance History Under hydroAMP application – Hydro Tasmania](#)
- > [Concrete Repairs in Intake or Scroll Case Area of Chickamauga Unit 1 – TVA](#)
- > [Generator Starting Relays – TVA](#)
- > [Spare Parts Availability for Crowbar De-Excitation Circuit - Cowlitz PUD](#)
- > [HPU Designs for Governors and Main Inlet Valves – Genesis Energy](#)
- > [Spare Part Availability for SF6 Circuit Breaker – TransAlta](#)
- > [Constructional Mitigation Measures to Reduce Hydropeaking Effects – Fortum](#)
- > [Procurement of Large Diameter Steel Penstocks – CADWR](#)
- > [Standards/Reports/Guidelines for Pelton Runners – NLH](#)
- > [Asset Failure Curves – CEATI](#)
- > [Developing Cost for MW Mileage Through Start/Stop Costs – SCE](#)
- > [Wear on Brake Tracks + Brake Pad Types – TransAlta](#)
- > [Arc Flash Standards and Practices – NLH](#)
- > [Floating Debris Management Form – CEATI](#)
- > [Level of Expertise of ARECOR Energy Company in Large Hydro – Hydro-Quebec](#)

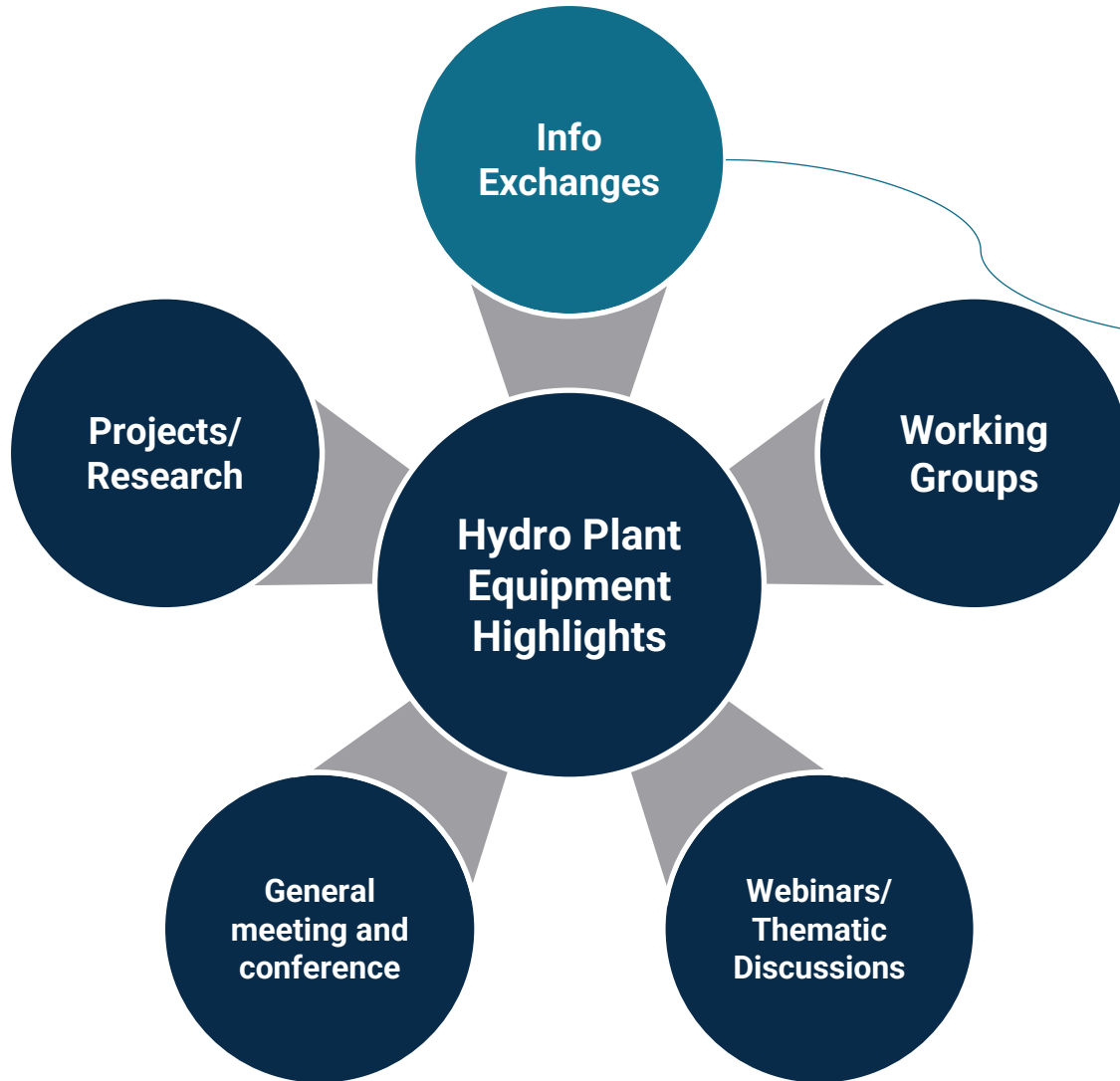
Hydro Plant Equipment Highlights: Information Exchanges



2024 (Pt 2)

- > [Turbine Shutoff Valve Accumulators: Upgrade to Piston Accumulators with Monitoring System – SCL](#)
- > [Personal Protective Grounding \(PPG\) in Powerplants – CEATI](#)
- > [Commissioning Software for Main Plant Overhauls – Snowy Hydro](#)
- > [Draft Tube Concrete Erosion due to High Water Velocity – Hydro-Quebec](#)
- > [Project 03109B Hydraulic Generating Station Balance of Plant Maintenance Catalog Phase II – MHI](#)
- > [Pelton Runner Pit Noise – Hydro Tasmania](#)
- > [NERC Requirements for Power Producers – NERC](#)
- > [22 MW Single Machine Project - Distributor Height Continuously Changing Issue – NTPC](#)
- > [Available Old GE Thrust Bearings – Constellation Energy](#)
- > [New Rotor Pole - Key Movement – Constellation Energy](#)
- > [Vertical Turbine Pump Replacement – CADWR](#)
- > [Replacements/Significant Structural Repairs on Intake Screens & Supporting Steel Structures – GRDA](#)
- > [Penstock Rehabilitation and Hazardous Material Abatement – NLH](#)
- > [Load Limiting Devices on Spillway Hoists Implementation and Best Practices – Fortis BC](#)
- > [Overspeed Allowance During Load Rejection for Small Hydro Generating Unit – OPG](#)
- > [Vertical Machine Alignment and Structural Integrity in Aging Hydro Power Stations – Genesis Energy](#)

Hydro Plant Equipment Highlights: Information Exchanges

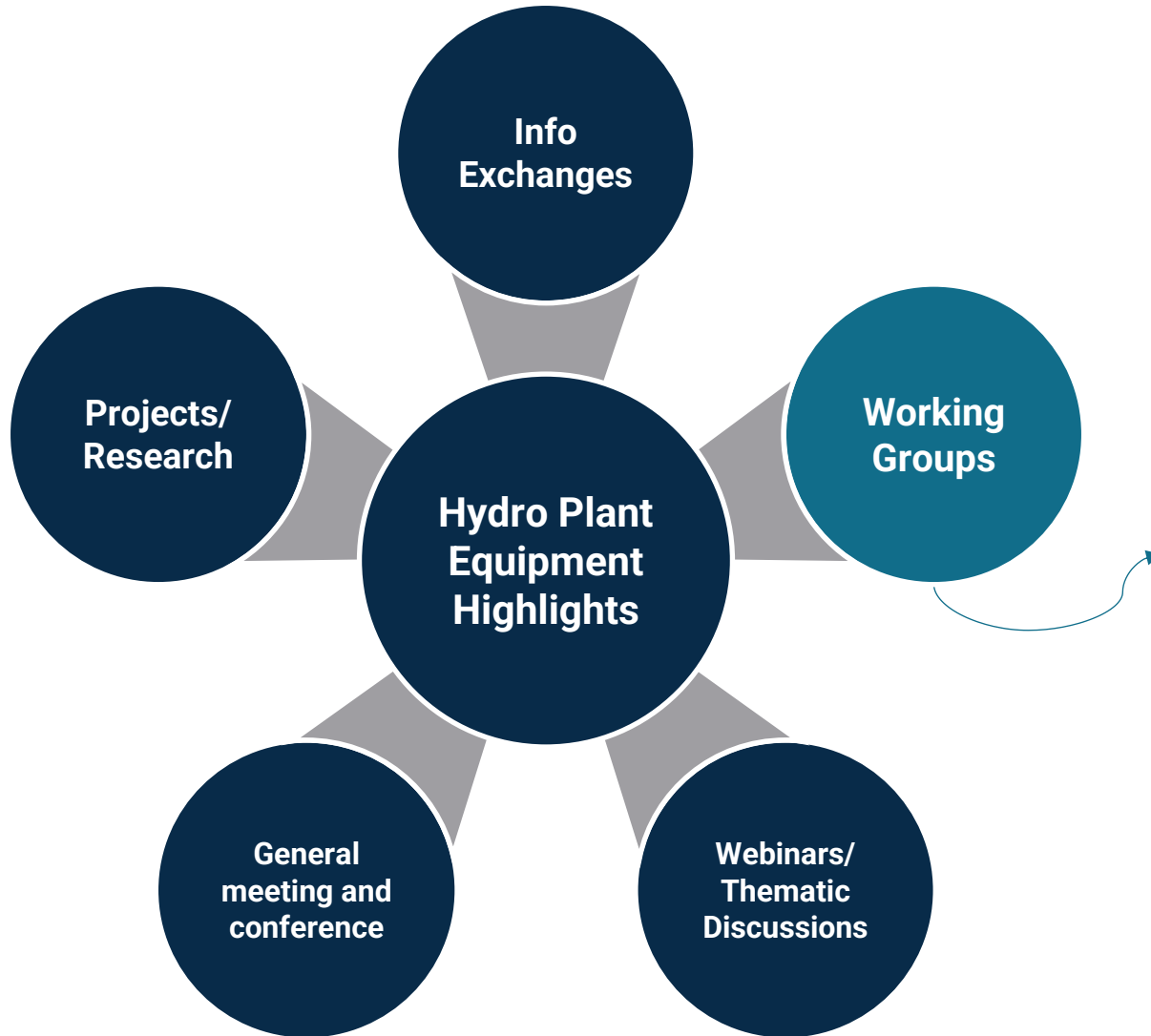


2024 (Pt 3)

- > [Use of Braided Optimized for Bending \(BOB\) Synthetic Rope as a Replacement for Steel Wire Rope – Chelan PUD](#)
- > [Aging Water-to-Water \(W2W\) Power Train Equipment](#)
- > [Utilizing Condition Indices for Maintenance Programs and Estimating Remaining Life](#)
- > [Experience and Service Life Extension for Stoplog Gains/Lintel Repairs with Divers](#)
- > [Hydro Scroll Case Entry – Double Block and Bleed Applicability](#)
- > [Water-Cooler Generator Rotor Performance and Supplier Feedback](#)
- > [Generator Stator Winding Material Inventory and Maintenance Strategy](#)

And many more!

Hydro Plant Equipment Highlights: Working Groups



> Gates Working Group



Aims to address issues and topics related to all mechanical, electrical, protection & operating systems related to head gates, spill gates, operating systems, valves and low-level outlets such as log sluices

> Kaplan Turbine Working Group



Common maintenance issues including oil leakage from trunnion seals and other locations, experience with EALs and water filled Kaplans, blade cavitation repairs and weld materials, common Kaplan failure mechanisms, etc.

> OEM Interface Committee



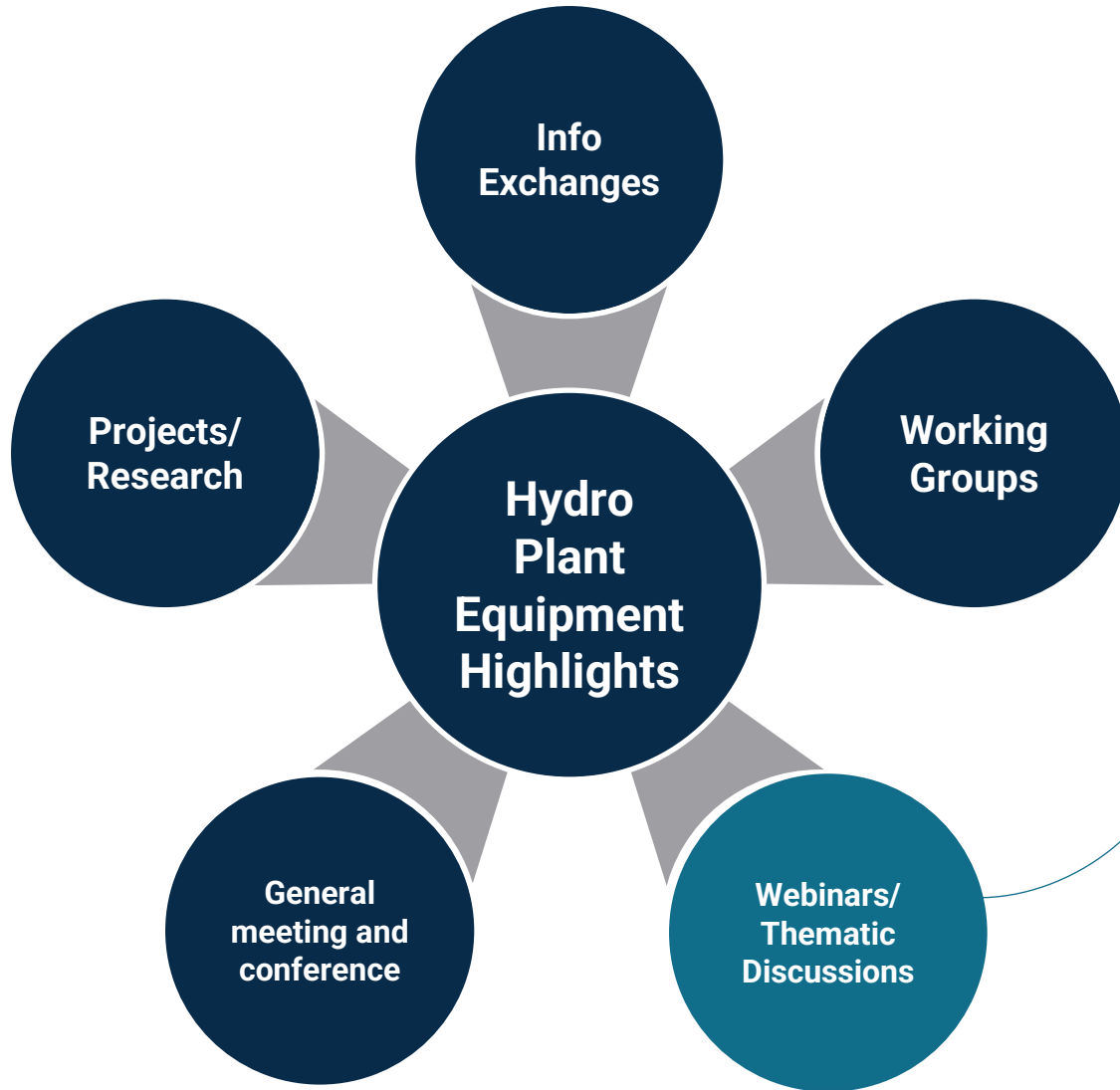
Due to the large amount of technical experience residing within the HPE group, it is beneficial to approach the OEMs as a unified voice on matters related to new technologies and R&D in the space of hydropower equipment

> Start/Stop Costs Working Group



Develop a standardized methodology to identify equipment degradation and cost impacts of start/stops and cycling

Hydro Plant Equipment Highlights: Webinars



2023 Webinar Highlights

- > April 18th, 2023: [Hydropower Supply Chain Issues](#)
- > May 10th, 2023: [Gate Replacement Projects](#)
- > June 27th, 2023: [Flood of the Century](#)
- > October 26th, 2023: [Vibration Fatigue in the Context of Hydro Units](#)
- > December 14th, 2023: [Exciters/PSS & Generator Control System Upgrades](#)

Recent and Upcoming Webinars:

- > Completed: 3 webinars on NERC standard MOD-025-2, MOD-026-1, MOD-027-1
- > Completed: Approaches Towards Improved Accelerated Cavitation Testing – PNNL
- > Completed: Hydro Generators’ Brushes, Brush Holders & Slip Ring Maintenance Best Practices – *Hydro-Quebec & GE Renewable Energy*
- > Completed: Lessons Learned from Visualizing Maintenance History and Operational Performance Data – *Manitoba Hydro*
- > Ongoing: 6 OEM Sessions on Technical Specs Guides to Support the Procurement of Major Hydraulic Plant Equipment
- > October 24, 2024: Generation Working Group Training Workshop Part 4 – NERC Standard PRC-019

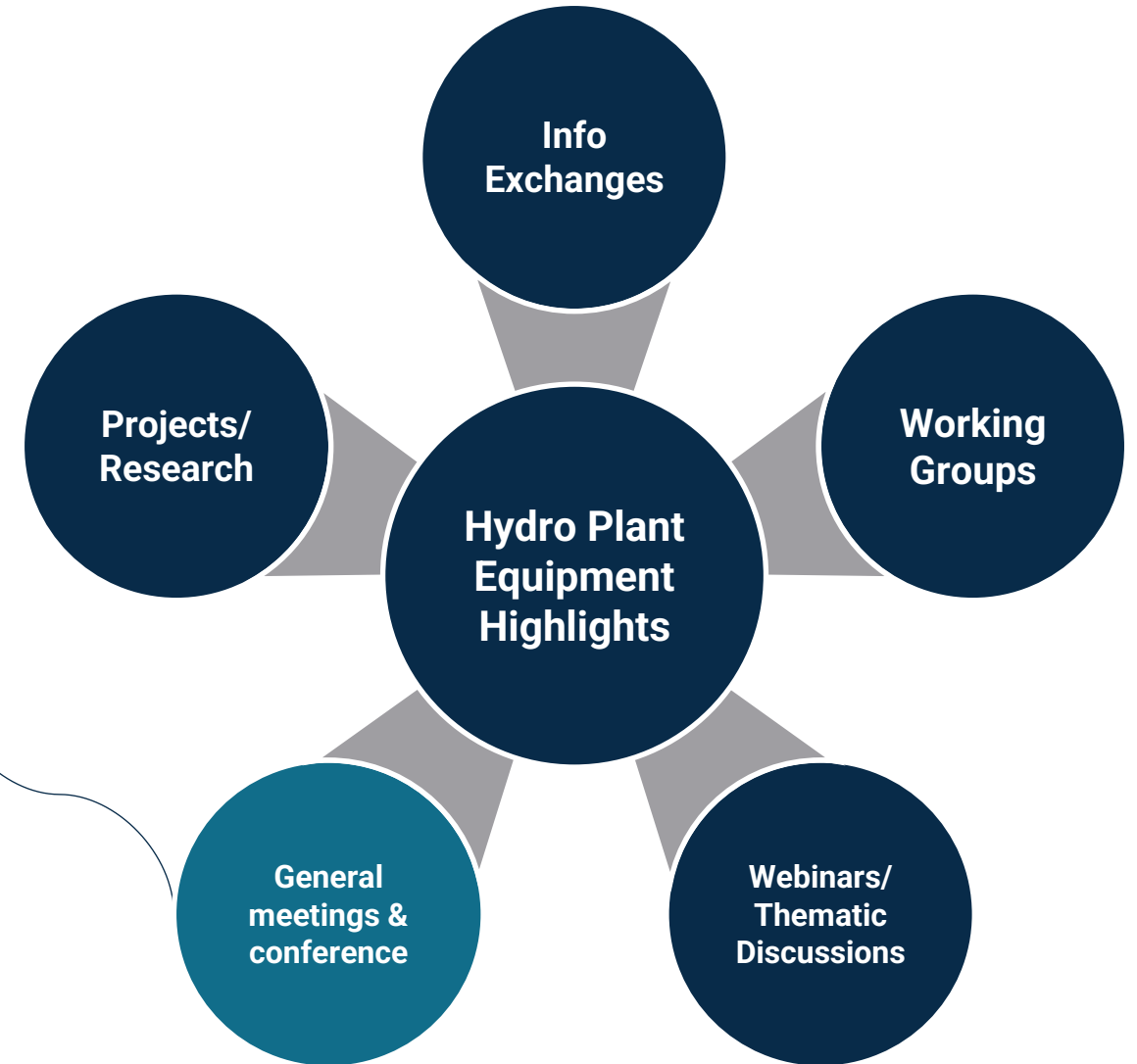
Hydro Plant Equipment: General Meeting and Conference

> Completed:

- > March 18th, 2024: Gates working group meeting – *Palm Springs, CA*
- > March 19th – 20th, 2024: Hydropower Conference – *Palm Springs, CA*
- > March 21st & 22nd, 2024: Spring general meeting – *Palm Springs, CA*
- > September 17th : OEM Interface Committee Workshop (Exciters Part 2) – *Fort Worth, TX*
- > September 18th & 19th: 2024 Fall General Meeting – *Fort Worth, TX*

> Upcoming:

- > March 24th, 2025: HPE Working Group Meeting (TBD) – *Palm Springs, CA*
- > March 25th & 26th, 2025: Hydropower Conference – *Palm Springs, CA*
- > March 27th & 28th, 2025: HPE Spring General Meeting – *Palm Springs, CA*

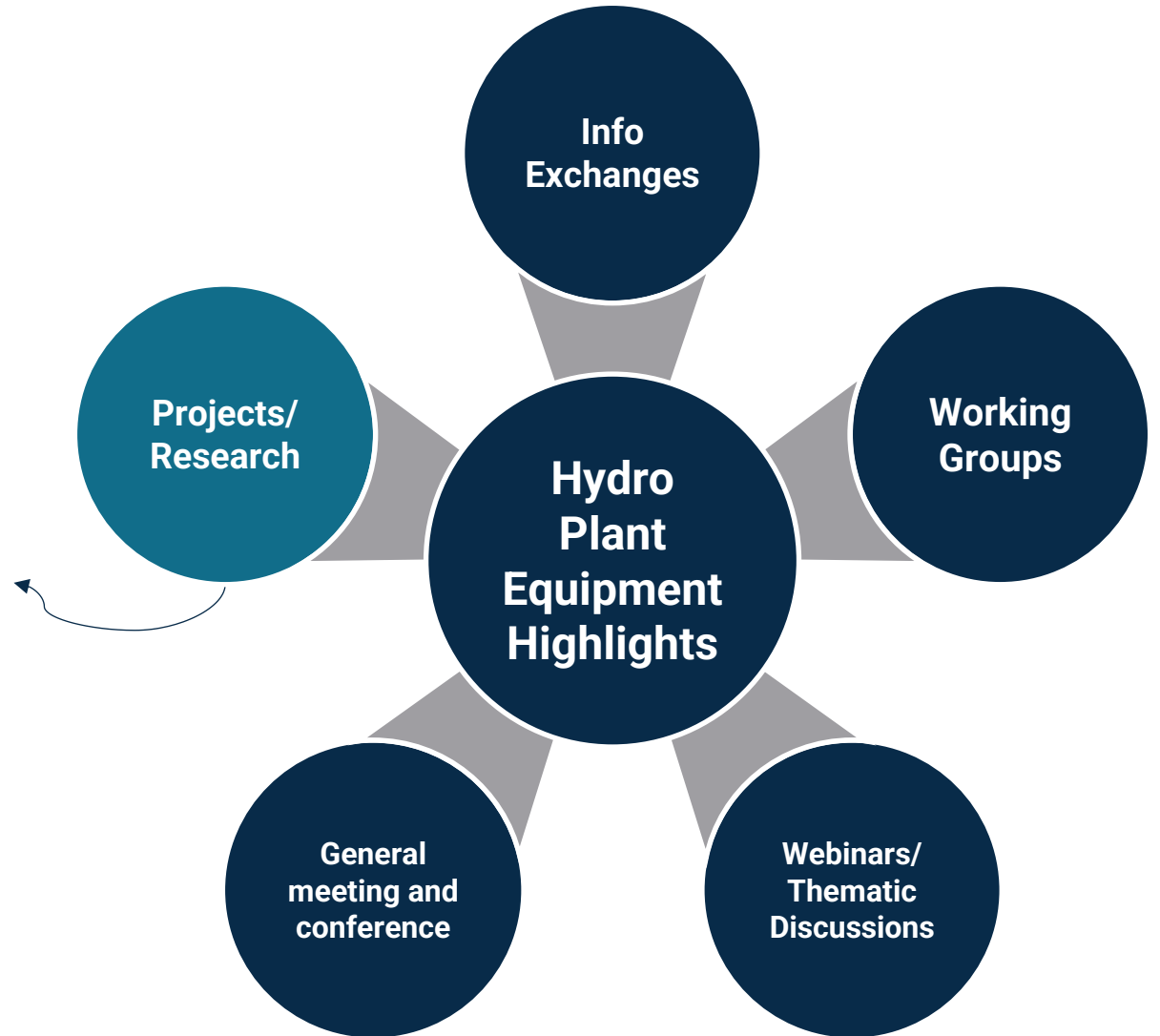


Hydro Plant Equipment Highlights: Projects/Research



Ongoing

- > [#0367 hydroAMP Program Management and Web Application – 2023](#)
- > [#03110 Hydro Plant Testing of Environmental Acceptable Oils](#)
- > [#03111 Technical Specification Guides to Support the Procurement of Major Hydraulic Plant Equipment](#)
- > [#03112 HPEIG & DSIG Identification of Instrumentation and Monitoring Requirements for Gate Systems *\(joint with DSIG\)*](#)
- > [#03113 Hydropower Training for Eng. and Technical Staff](#)
- > [#03109 B Balance of Plant Maintenance Asset Maintenance Catalogue – Phase II](#)
- > [#03114 Gates Refurbishment vs. Replacement *\(joint with DSIG\)*](#)
- > [#03119 Alternative Generator Fire Suppression System Efficacy – Staged Fault Research](#)
- > [#03104B Establishing a Standard Methodology to Evaluate Start/stop and Cycling Costs and Impacts - Phase III](#)
- > [#03116 Hydro Generator Winding Failure Repair Guide](#)



Hydro Plant Equipment Highlights: Projects/Research



Potential

- > [RFP Optimum Timing for Asset Replacement/Repair based on Condition Assessment and Statistical Methods](#)
- > [PDS Instrumentation for Hydro Units](#)
- > Maintenance Practices Benchmarking Survey
- > AI Machine Diagnostic Tools: Comprehensive Review and Implementation Guide
- > [Environmentally Enhanced Hydropower Technologies](#)



OEM Workshops

Due to the large amount of technical experience residing within the HPEIG, the group holds yearly OEM Workshops on matters related to new technologies and R&D in the space of hydropower equipment. This workshop creates ongoing relationships between utility members and OEMs - both parties share ideas and understand 'pain points', with the overall aim of improving both parties' knowledge and the industry generally.

- 2019: **Improving the Quality and/or Timelines of Supplied Goods + Increasing the Operating Range and Robustness of Francis and Propeller (Fixed Pitch) Runners** (*GE, Andritz & Voith*)
- 2020: **Improving Quality and/or Timeliness of Supplied Goods and Services + Rehabilitating or Re-Designing Generator Components + Improving Maintenance with Design** (*Andritz, GE, Voith & NEC*)
- 2021: **Emerging Technologies & Future Business Practices in Hydro Workshop** (*Andritz, Voith & GE*)
- 2022: **New and Emerging Technologies + Sourcing and Manufacturing** (*Voith, Andritz, GE, L&S, Emmerson/American Gov and Reivax*)
- 2023: **Excitors – part I** (*Basler, Andritz, GE*)
- 2024: **Excitors – part II** (Reivax, ABB, Voith) – September 17th in Forth Worth, TX

hydroAMP Guides & Application

Table 1-1 Condition Index, Condition Equipment Ratings and Definitions

Condition Index (CI)	Condition Equipment Rating	Definition
8 ≤ Index ≤ 10	Good	There is a high level of confidence that the component will perform well under normal operating conditions. Continue current O&M practices. Repeat condition assessment on normal frequency. Consider performing Tier 2 tests when convenient to provide data for comparison with future tests.
6 ≤ Index < 8	Fair	There is a medium level of confidence that the component will perform well under normal conditions. The component may require investigations to confirm adequacy. Consider O&M practices, minimal restrictions to component operation and/or minor maintenance may be necessary. Consider assessment on normal frequency. Consider Tier 2 tests to provide further insight in condition and adjust Condition Index score as necessary.
3 ≤ Index < 6	Marginal	There is a low level of confidence that the component will perform well under normal operating conditions. Component requires additional investigation for adequacy. Restricted operation and/or minor maintenance are necessary. Perform appropriate tests and adjust Condition Index score as necessary. Consult with technical specialists. Repeat assessment more frequently.
0 ≤ Index < 3	Poor	The component does not perform well under normal operating conditions. Physical signs of deterioration are present. Significant re-operation and/or extensive non-routine maintenance are necessary. Perform immediate Tier 2 to Condition Index score as necessary. Consult with technical specialists. Repeat condition assessment frequently.

**GOVERNOR – ELECTRICAL CONTROL SYSTEM
TIER 2 CONDITION ASSESSMENT SUMMARY**

Date: _____ Location: _____ Identifier: _____
 Manufacturer: _____ Year Manufactured: _____
 Year Rehabilitated: _____ In-Service Year: _____ Is a Spare? (yes/no): _____
 Governor Control System (Mechanical/Analog/Digital): _____
 OEM Critical Spare Parts (Choose one): _____ [A/B/C/D]
 A = OEM parts available (minimal lead time)
 B = OEM parts available (long lead time)
 C = Non-OEM parts available (i.e., OEM parts not available, must procure non-OEM parts)
 D = No longer available/acquirable (i.e., neither OEM nor non-OEM parts available or acquirable)

Tier 2 Governor – Electrical Control System Condition Summary		
No.	Tier 2 Inspections, Tests, and Measurements	Adjustment to Tier 1 Condition Index
1	Dead Band Test	
2	Dead Time Test	
3	Gain Verification	
4	Upset Stability Test	
5	Load Rejection Response Test	
6	Online Generation Response Test	
7	Online Servomotor Response Test	
8	Speed Stability Index Test	
9	Power Stability Index Test	
10	Simulated Speed Step Test	
11	Other Specialized Diagnostic Tests	
Tier 2 Adjustments to Governor Electrical Control System Condition Index (Sum of individual Adjustments)		



OBJECTIVES

- Provide a framework to streamline and simplify methods for objectively evaluating the condition of hydroelectric equipment for the purpose of supporting asset and risk management decision-making.

DELIVERABLES

- Recently released 0367 “hydroAMP Consolidated Guide: Hydropower Asset Condition Assessments Revision 2.2”!
- Field Inspection Guides
- Generic Equipment List and Hierarchy

Cheat Sheet for Best-Seller Projects

- Maintenance and repair guide for aging in-service penstocks

0393 Hydraulic Generating Station Penstock Maintenance and Repair Reference Manual

- Provides guidelines to make informed decisions for the inspection and assessment of penstocks

0388 Penstock Inspection and Assessment Reference Manual

- Presents tolerances for the erection of the principal components of vertical shaft hydroelectric generating units

0381 Hydroelectric Turbine-Generator Units Guide for Erection Tolerances and Shaft System Alignment

- Assists engineers in understanding and carrying out the commissioning of major equipment for hydroelectric stations.

0386 Commissioning Guide for Hydroelectric Generating Stations

- Assists engineers in understanding, planning, and carrying out the commissioning of auxiliary systems and equipment for hydroelectric stations

0398 Commissioning Guide for Hydroelectric Generating Stations - Auxiliary Systems and Equipment

- Outlines maintenance philosophy for hydrogenerators in order to maximize unit availability and reliability

0380 Hydro Generator - General Maintenance and Inspection Guide

- Best practices for maintenance program methodology, training, operation, maintenance plan, condition assessments, and modernization of crane, hoist and plant lifting equipment.

0397 Best Practice Guide for the Operation and Maintenance of Cranes and Lifting Equipment

- Mechanical refurbishment of hydroelectric turbine generators

0354 Mechanical Overhaul Guide for Hydroelectric Turbine Generators

- Electrical refurbishment of hydroelectric turbine generators

0385 Electrical Overhaul Guide for Hydroelectric Turbine Generators

- Part A describes the need for a quality program from the owner's perspective
Part B expands with guidance for each of the major pieces of electrical and mechanical equipment for a hydroelectric plant.

03/102 A&B Guide to Ensuring Quality for Manufacturing and Installation of Hydroelectric Plant Equipment



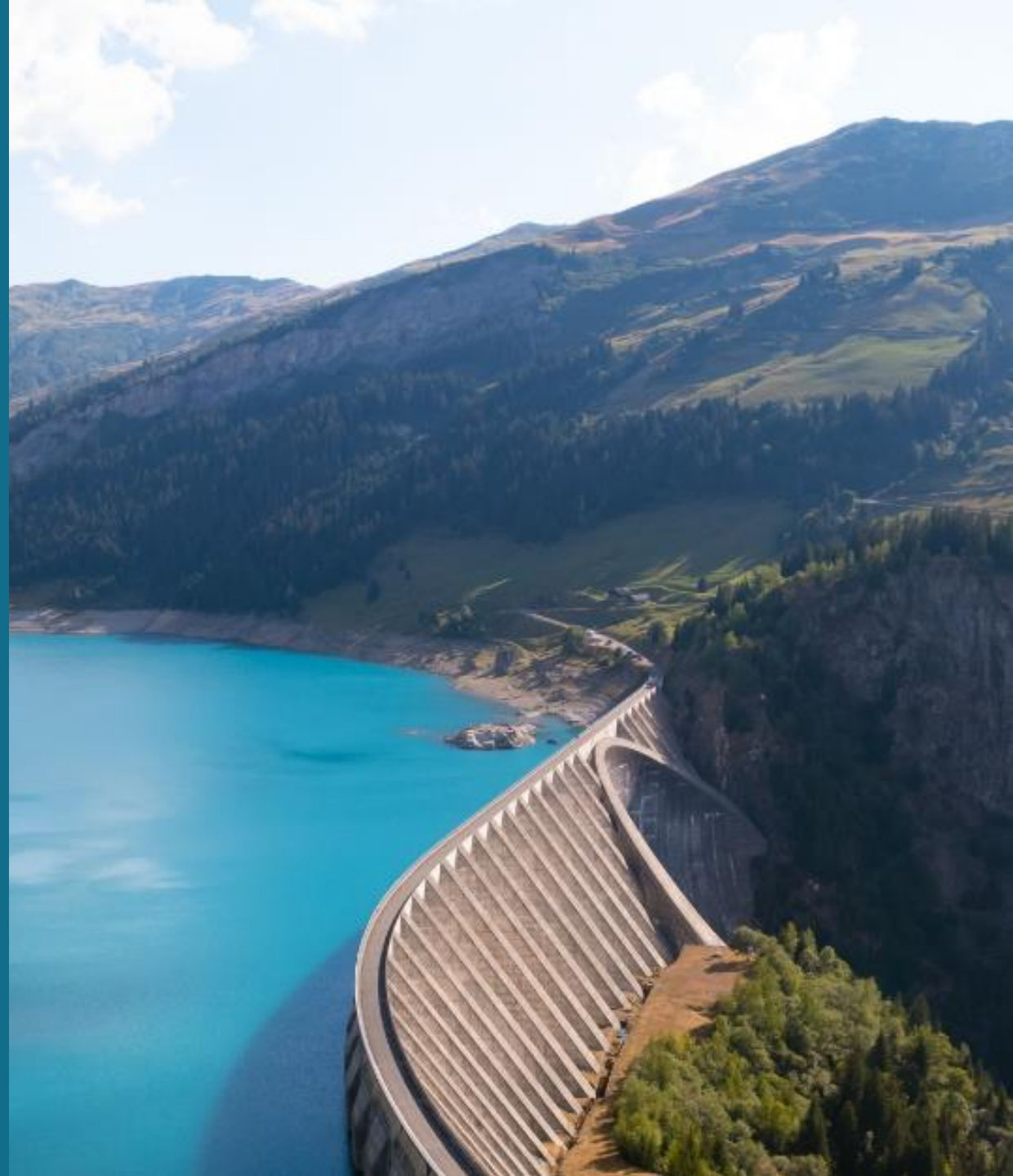
Hydropower Conference

March 25-26, 2025 | Palm Springs, CA



[Learn More](#)

Connect with 700+ hydropower professionals





Hydropower Conference

*Hydropower Horizons –
Shaping the Role of Hydropower
in Tomorrow's Energy Landscape*

Conference Tracks:

- Dam safety
- Plant equipment
- Operations and planning

The Week at a Glance

March 24 - 28, 2025 • Palm Springs, CA

	Morning Break	Lunch	Afternoon Break	
MONDAY 24	Dam Safety General Meeting			FERC
	Hydropower Operations & Planning General Meeting			Welcome Reception
	Golf Tournament		HPE Start/Stop Working Group Meeting	
TUESDAY 25	Hydropower Conference			Exhibitor Reception
WEDNESDAY 26	Hydropower Conference			Women in Power Reception
THURSDAY 27	Dam Safety Workshop: Functional Block Diagrams for Understanding Dam Systems			
	CCORA Working Group		Inflow Forecasting Working Group	
	Hydropower Plant Equipment General Meeting			
FRIDAY 28	Hydropower Plant Equipment General Meeting			
	Dam Safety and Hydropower Operations & Planning Climate Change Working Group			

Note: The Working Group meetings on Monday, March 24th and the General Meetings on Thursday March 27th – Friday March 28th are only available to CEATI utility members.



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BOARD AGENDA REPORT

Date: 12/19/2024

Staff: Forrest Killingsworth
SSJID Engineering Manager

SUBJECT: Canyon Tunnel 95% Design Progress Update and Final Design Proposal

RECOMMENDED ACTION:

No action recommended. Staff seeks consensus from the Board to proceed with the approval process to initiate the Final Design Proposal as presented by Provost and Pritchard Consulting Group ("P&P"), to be performed on a time and expense basis, not to exceed \$401,000 plus an addition \$50,000 addendum to be authorized by the SSJID General Manager in event of unforeseen work not previously anticipated (\$451,000 total authorization). The OID and SSJID boards will independently consider approvals at subsequent board meetings.

BACKGROUND AND/OR HISTORY:

Development of the 95% Canyon Tunnel design was initiated in May of 2024 which included ten (10) phases of work listed below:

1. Consultation and Coordination
2. Final Civil Design
3. Final Geotechnical Design
4. Final Electrical Design
5. Landowner Support
6. Biological/CEQA/Planning and Permitting
7. Contract Assistance
8. Final Engineer's Opinion of Probable Construction Costs
9. Final GDR/GBR
10. Reporting

P&P will provide a presentation summarizing the results of the 95% design. The authorized budget for the 95% Design amounted to \$775,650. Most of the 95% design work is complete, however certain elements remain outstanding including portions of design that are dependent on landowner negotiations, destinations for spoils disposal, Division of Safety of Dams (DSOD) plan review response, and finalizing design drawings/specifications. The remaining work is dependent on the results of landowner negotiations and pending review comments from DSOD. While the 95% design is not officially finished, the design team is ready to advance other components of the project design (that are not dependent on landowner negotiations and DSOD input). As such, P&P has prepared a proposal to advance the project to the final design level. Approximately \$45,000 remains in the budget from the 95% design contract which has been rolled over into the Final Design Proposal.

ANALYSIS:

The Final Design Proposal will continue to build on the work completed in the 95% design phase. The proposal is broken down into eight (8) phases and includes the unfinished work from the 95% design:

- *Phase 1 – Consultation and Coordination (\$79,100)*
 - Design meetings with SSJID, OID, and TDP to identify specific needs, requirements, and objectives of the Project

- Coordination and meetings with regulatory agencies, as necessary, including DSOD, USGS, CDFW, Stanislaus County, Tuolumne County, etc.
- Participation and support in the Canyon Tunnel Public Outreach Program
- Support, as needed, to develop an agreement with the Chicken Ranch Rancheria Tribe of Mi-Wuk Indians
- *Phase 2 – Final Design Drawings (\$73,600)*
 - Development of 100% Design Drawings for Bid
- *Phase 2.1 – Response to DSOD (\$25,400)*
 - Review and respond to pending DSOD review comments from the August 23, 2024 plan submittal. DSOD comments are anticipated to be received in mid-December.
- *Phase 3 – Final Report Documentation (\$33,200)*
 - Finalization and organization of all technical memorandums, plans, reports, and other associated documentation.
- *Phase 4 – Final Contract and Technical Specification Documents (\$47,800)*
 - Incorporate District review comments from the 95% submittal
 - Incorporate DSOD comments
 - Finalize “For Bid” plans and specifications
- *Phase 5 – Landowner Support Services (\$34,700)*
 - Incorporate horizontal directional drilling bid alternative for Mangante turnout in the “For Bid” plans and specifications.
 - Incorporate Ram Pump replacement design in the “For Bid” plans and specifications.
 - Provide technical support and assistance to finalize landowner negotiations
- *Phase 6 – Biological/CEQA/Planning/Permitting (\$23,800)*
 - Amend CEQA document based on updated design
 - 401 and 404 permit tracking and updates
 - Amend LSA Agreement pending landowner agreement
 - Tree planting mitigation
- *Phase 7 – Cotton, Shires & Associates (CSA) Monitoring and Reporting (\$14,200)*
 - Final survey for slope monitoring on the upstream hillside above the new tunnel intake prior to construction (January/February)
 - Issuance of and addendum to the bid documents upon completion
- *Phase 8 – Bid Support Services (\$69,200)*
 - Pre-bid Job Walk and response/consultation to bidder questions
 - Post-Bid Review and Selection Support
 - Post-Bid Administration/Consultation (contract execution, organization, and Notice-of-Award)

Project Schedule:

Following the Tridam meeting, each board will independently consider approval of the Final Design Proposal. If approved, the Final Design work will be officially initiated in January of 2025. Key milestones regarding the project schedule are listed below:

- | | |
|------------------|---|
| - December 2024 | Initiate 100% Design (i.e., prepare for bidding) |
| - January 2025 | Complete Landowner Negotiations |
| - February 2025 | Initiate Bid Solicitation |
| - April 2025 | Award Construction and Construction Management/Inspection Contracts |
| - June/July 2025 | Notice to Proceed (Begin Construction) |
| - September 2027 | Tunneling Complete |
| - February 2028 | Tie-in to existing JSC and Substantial Completion |
| - April 2028 | Final Completion |

Key Notes and Takeaways:

1. Certain elements of the Final Design, Construction Bidding, Construction Contract Award, and Final Completion are dependent on several items that are not entirely within the District's control. For example:
 - DSOD's timely delivery of plan review comments and the content of comments received
 - Timely issuance and processing of permits and agreements from regulatory agencies
 - Cooperation from landowners and acquisition of final landowner agreements
 - Favorable results from environmental surveys (i.e., protected plants, birds, bats, etc.)
 - Contractor's ability to perform at the District's estimated pace

The primary objective is to put the Canyon Tunnel into service prior to the 2028 Irrigation Season. Whether or not this is an achievable objective will become clearer as the final design nears completion and construction bidding is underway.

2. Because of the uncertainty related to the outcomes of the items listed above, Staff recommends authorizing the SSJID General Manager to issue up to a contract \$50,000 contract addendum to cover work not previously identified. By doing so, the speed and efficiency of completing final design will be enhanced.

FISCAL IMPACT:

Phase	Estimate Fee
Phase 1 – Consultation and Coordination	\$ 79,100
Phase 2 – Final Design and Drawings	\$ 73,600
Phase 2.1 – Response to DSOD	\$ 25,400
Phase 3 – Final Report Documentation	\$ 33,200
Phase 4 – Final Contract and Technical Specification Documents	\$ 47,800
Phase 5 – Landowner Support Services	\$ 34,700
Phase 6 – Biological/CEQA/Planning/Permitting	\$ 23,800
Phase 7 – CSA Monitoring and Reporting	\$ 14,200
Phase 8 – Bid Support Services	\$ 69,200
Total Estimate Fee:	\$ 401,000

Note: the total fee estimate includes approximately \$45,000 of remaining budget from the 95% Design contract. If approved, the remaining budget will be rolled into the Final Design. Therefore, authorization for additional expenditures amounts to \$356,000 (\$256,320 SSJID / \$99,680 OID).

2024 Budget Summary:

Total 2024 Canyon Tunnel Budget	\$ 877,569
<u>Expenditures through October</u>	<u>\$ 693,597</u>
Remaining 2024 Budget:	\$ 183,972

2025 Approved Budget: \$ 13,417,167

2025 Anticipated Expenditures:

Final Design and Bidding	\$ 401,000
Public Outreach Program	\$ 149,941
Permitting	\$ 208,000
CM & Inspection	\$ 1,033,333
Environmental Implementation & Monitoring	\$ 133,333
<u>Construction</u>	<u>\$ 11,742,500</u>
Total	\$ 13,668,107

ATTACHMENTS:

Attachment A – Final Design Proposal

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Van Ryn (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Weststeyn (Yes/No)

Proposal No. 24-518

December 10, 2024

Forrest Killingsworth
South San Joaquin Irrigation District
PO Box 747
Ripon, CA 95366

**Subject: Final Design and Bid Support Services Proposal
Canyon Tunnel Project**

Dear Mr. Killingsworth:

Provost & Pritchard Consulting Group (P&P) has prepared this Proposal for South San Joaquin Irrigation District (SSJID) and Oakdale Irrigation District (OID) to provide final design and bid support services for the Canyon Tunnel Project (Project). Primary tasks will include preparation of final documentation and drawings, environmental planning and permitting services, landowner negotiations support, slope monitoring, and construction bid support services. Activities will include participation in SSJID's Project public relations campaign; completion of final design documents and reporting including addressing comments from DSOD; assessing risk and contingency parameters and allowances; planning and permitting phases up to construction; slope monitoring readings and reporting prior to construction; preparation of For Bid documents; and bid administration support services for the Project.

We anticipate that this scope will be approved by the District following the December 2024 Tri-Dam Project (TDP) Board meeting. Pending some decisions and approvals beyond our control, we expect to have all documents and drawings ready to go out to bid by the end of January or early February 2025. This work will go through contractor Notice of Award (anticipated April 2025).

Scope of Services

Phase 1 – Consultation and Coordination

P&P will provide consultation and coordination with the project team and will participate in public outreach as detailed in a schedule provided to us by SSJID. Included in this budget line item is time to assist with the Chicken Ranch Rancheria Tribe for working on an agreement if needed.

Because there are many unknowns for this phase of the work, we suggest a budget of \$79,100 to be billed on a time and expense basis.

Phase 2 – Final Design and Drawings

P&P will provide 100% Design Drawings (For Bid) for the General, Tunneling, Civil, Structural and Electrical sheets, which will include final spoils locations, SSJID/OID/TDP comments, private turnout alternate design and details, and review internal notes from the 95% Drawing Check Set.

Phase 2.1 – Response to DSOD

P&P will address the second round of DSOD comments when received. The updated DSOD-specific Drawing and Specification Check Set was submitted to DSOD on August 23, 2024 and comments are anticipated to be received in mid-December of 2024. Preliminary feedback from DSOD indicates some revisions to the jurisdictional elements of the intake structure will be required. This phase will include making design changes, re-submittal to DSOD and assistance with preparation of the required DSOD dam modifications application. Because of the unique nature of this project and the unknown extent of the comments that will be received, we have assumed a budget of \$25,400 to complete.

Phase 3 – Final Report Documentation

P&P will prepare finalization of the following reports and documents:

- Design Report
- Geotechnical Baseline Report
- Construction Cost Estimate Memo
- Geotechnical Engineering Design Memo
- Risk Evaluation Memo (construction budget contingency)
- Rockfall Analysis Report
- Upstream Geologic Hazard Study

These reports have been prepared as draft reports for review of the team and DSOD where applicable. This phase will be to make final edits and prepare these documents for bid inclusion or references for the bid, or for the Districts' files (not all documents will be provided to the bidders).

This phase includes one workshop meeting with the Project team to review risk analysis and documentation for the Risk Register submitted in our November transmittal.

Phase 4 – Final Contract and Technical Specifications Documents

Draft Technical Specifications were prepared and submitted in December 2023 and draft Contract Documents were prepared and submitted in November 2024. In this phase, P&P will meet with the client team to review the documents, address comments, incorporate generator replacement plans and specifications, and include DSOD comments from their review, and prepare bid sheets. We will prepare these For Bid documents to go to the Pre-Qualified Bidders.

Phase 5 – Landowner Support

The Mangante turnout design (using trenching) is substantially complete, and identified a potential alternative during our 95% design phase. Horizontal directional drilling (HDD) from the tunnel to the existing turnout manifold will be provided as a bid alternate for construction. Both alternatives will be shown in the For Bid Drawings.

Additionally, we will provide support for the stock water supply that SSJID has historically provided to Mangante, as requested. Currently, the Ram Pump lifts water from the canal to a stock water

tank. This pump will be bypassed by the new tunnel. If directed by SSJID, we will prepare design details for a tunnel tap and stock water pump to be included in the For Bid Drawings.

P&P will also support SSJID requests for additional exhibits that may be needed for landowner agreements.

Phase 6 – Biological/CEQA/Planning and Permitting

This phase includes CEQA amendment based on updated design, 401 and 404 permit tracking and updates, LSA amendment pending landowner agreement, and tree planting mitigation. Rare plant surveys will be required in May and June 2025, so will be included in the Construction Management work.

Note that some of the tasks were included in our 95% design and time remaining will be rolled into this phase. This proposal includes remaining work through April 2025.

Phase 7 – CSA Monitoring and Reporting

Cotton, Shires & Associates has been performing slope monitoring on the upstream hillside above the new tunnel intake. Their last visit was November 20, 2024 and their related reporting will be billed under the 95% design phase. This work phase will include a final survey prior to construction. We have requested that the work be performed in late January/early February and that the monitoring report be provided to P&P by March 1, 2025 (to be included as an addendum to the bid documents during bidding).

Phase 8 – Bid Support Services

This phase will consist of providing support to SSJID staff during the bidding process with the pre-qualified bidders (Bidders). This phase will include:

- **Contractor Pre-Bid Preparation and Bid Walk** – P&P will assist SSJID staff in managing the pre-bid duties and presenting the Project to Bidders. P&P will participate in a mandatory pre-bid walk to be attended by all Bidders.
- **Contractor Pre-Bid Response/Consultation** – P&P will assist SSJID staff in responding to Bidder requests for information and preparation of addenda if needed as a result of such inquiries per the Contract Documents.
- **Post-Bid Contractor Review/Selection/Consultation** – P&P will assist SSJID staff in reviewing Bids for completeness and comparison. P&P will meet with SSJID staff and provide recommendations for contractor selection. Services required in response to an unlikely bid protest are excluded from our fee estimate included herein.
- **Post-Bid Contractor Administration/Consultation** – P&P will compile executed Contract Documents, combine into one electronic file for distribution and provide one hard copy for the selected Contractor and SSJID. P&P will also assist SSJID staff preparing and distributing the Notice-of-Award.

Professional Fees

As we have done historically, P&P will roll over our remaining budget from one project to the next. We have approximately \$45,000 that will move from 95% to this phase and have accounted for that in the table below.

P&P will perform the services in this Proposal on a time and expense basis, in accordance with our Standard Fee Schedule in effect at the time services are rendered. These fees will be invoiced monthly as they are accrued, and our total fees, including reimbursable expenses, will not exceed our estimate of \$401,000 without additional written authorization.

Table 1

Proposed Fee – Canyon Tunnel	
Phase	Estimated Fee
Phase 1 – Consultation and Coordination	\$79,100
Phase 2 – Final Design Drawings	\$73,600
Phase 2.1 – Response to DSOD	\$25,400
Phase 3 – Final Report Documentation	\$33,200
Phase 4 – Final Contract and Technical Specification Documents	\$47,800
Phase 5 – Landowner Support Services	\$34,700
Phase 6 – Biological/CEQA/Planning/Permitting	\$23,800
Phase 7 – CSA Monitoring and Reporting	\$14,200
Phase 8 – Bid Support Services	\$69,200
Total Estimated Fee:	\$401,000
Roll Over Total	(\$45,000)
Total New Authorization	\$356,000

The line items shown above are estimates and are not intended to limit billings for any given Phase. Required phase effort may vary up or down from the line-item estimates shown, however total billings will not exceed the Total Estimated Fee shown without additional authorization. If the scope changes materially from that described above, as a result of any agency’s decision or because of design changes requested by the Owner, we will prepare a revised estimate of our fees for your approval before we proceed.

Schedule

P&P’s continued work for the Canyon Tunnel Project can begin immediately following client acceptance of this proposal, or as directed. We anticipate going to bid by the end of January or early February 2025 and Notice-of-Award in April 2025.

Additional Services

The next proposal will include Construction Management (CM) services. That proposal will be based on our preliminary estimate of the construction schedule; actual schedule and any implications regarding our CM fees to be confirmed after the contractor is selected and the contractor’s baseline schedule is submitted.

Terms and Conditions

P&P offers a range of investigative, engineering and design services to suit the varying needs of our clients. Although risk can never be eliminated, more detailed and extensive investigations or assessment yield more information, which may help understand and manage the degree of risk. Because such detailed services involve greater expense, our clients participate in determining the level of service that will provide adequate information for their purposes at an acceptable level of risk. It should be recognized that definition and evaluation of subsurface and geologic conditions are difficult and inexact arts. Although judgments leading to conclusions and recommendations are based on the (limited) data collected and are considered to be representative of site conditions, the data will not provide complete knowledge of the subsurface conditions present.

P&P may, during the preparation of the work product, review and reference work conducted by others including the Client. P&P is not responsible to independently verify work prepared by others intended to be utilized under this contract, when said work products is represented as true, accurate and precise for intended use. Verification can be provided by P&P upon request and with additional scope and fee authorized by the client.

Acceptance of this Proposal will indicate that the client has reviewed the scope of service and determined that it does not need or want more services than are being proposed at this time. Any exceptions should be noted and may result in a change in fees.

P&P will perform its services in a manner consistent with the standards of care and skill ordinarily exercised by members of the profession practicing under similar conditions in the geographic vicinity and at the time the services will be performed. Regulations and professional standards applicable to P&P's services are continually evolving. Techniques are, by necessity, often new and relatively untried. Different professionals may reasonably adopt different approaches to similar problems. Therefore, no warranty or guarantee, express or implied, will be included in P&P's scope of service.

If this Proposal is acceptable, please provide a Work Release or Professional Services Agreement that includes this scope of work. This will serve as our Notice to Proceed. This Proposal is valid for 30 days from the date above.

Sincerely Yours,
Provost & Pritchard Consulting Group



Scott W. Lewis, CEG 1835
Principal Tunneling Consultant



Alex Collins, RCE 78242
Director of Operations

GENERAL MANAGER BOARD REPORT

Summer Nicotero

December 19, 2024

1. Our Tri Dam holiday party was very well attended and a great time! Thank you to all who made it such an enjoyable evening. Special thanks to Genna and Shelley for their efforts in coordinating and setting up. It was great seeing everyone outside of the work environment.
2. Beardsley and Sand Bar annual maintenance is complete with both plants back online as scheduled. Several projects were completed, including the RTU upgrades at both plants. We also took advantage of the outage to conduct CO2 saturation testing of our fire suppression system at both plants. This item has been on our insurance checklist for several years and is a relief to have completed without any issue.
3. Donnells annual maintenance is underway as of press time. The new carbon dust vacuum collection system was installed and is ready to go. As part of our process this year we have started discussing a spare parts inventory. One of the items to be considered is the Pelton wheel at Donnells. The buckets endure significant wear and tear and will only have so many years before the strength is compromised. Long-lead time, critical components such as this would save millions in lost revenues should there be a failure. We will be working to develop a plan to systematically build a critical component backup inventory over the next 10 to 15 years.
4. I attended a National Hydropower Association two-day virtual training and learned quite a bit about many aspects of Hydropower. One of the more notable topics was asset management plans. I hope to incorporate these learnings into our capital plan development in 2025. In addition there were some very interesting discussions about the electric grid and changes that are developing. I will be putting together a study session to discuss this in the first part of 2025 as we look into future year revenue forecasts. I have included an article that discusses the extended day-ahead market which is one factor that will likely change the pricing of power in coming years. This link [Extended Day-Ahead Market - Western Energy Imbalance Market](#) includes much more detail regarding the EDAM.
5. Reservoir storage levels in the upper works are below historical averages. We are maximizing our revenues in 2024 and will be meeting before the holidays to finalize our storage targets for the first quarter. Without any increase in precipitation, we expect to pull back on winter production in 2025 to maintain generation efficiency.
6. We would like to welcome a new employee to Tri-Dam. Carson Gracia has joined the team as a Laborer. Welcome to the team Carson!
7. As we close out the year, I want to thank the districts for their support. Every time I have a question or need assistance the response I get from either district staff is so positive. Thank you to Sharon and John for all the accounting and budget support. Thank you to Sonya and Sarah for your help with the budget. Thank you to Mia for the endless legal questions! Thank you to Peter

and Scot for your advice and input and for answering my emails. Thank you to Dawn and Kim for the endless notaries and to Casse and Danielle for the coordination efforts and “the Michaels” for IT snafus. Finally, thank you to the board for your support, advice, and for dedicating your time to our agency. Teamwork makes all of our jobs easier and I appreciate everything you all bring to the table. I hope you all enjoy the holidays as we gear up for an incredible new year!

8. The January Advisory meeting is scheduled for January 6th at the Oakdale Irrigation District office at 2 pm.

Extended Day-Ahead Market

The Extended Day-Ahead Market (EDAM) is a voluntary day-ahead electricity market designed to deliver significant reliability, economic, and environmental benefits to balancing areas and utilities throughout the West.

Building on the proven success and tangible benefits of the real-time Western Energy Imbalance Market (WEIM), the EDAM can increase regional coordination, support states' policy goals, and meet demand cost-effectively.

Since its launch in 2014, the WEIM has grown to 22 participating balancing areas representing 80% of the load in the Western Interconnection and exceeds [\\$6 billion in benefits](#). The WEIM continues to expand, with two additional entities onboarding in the WEIM in 2026.

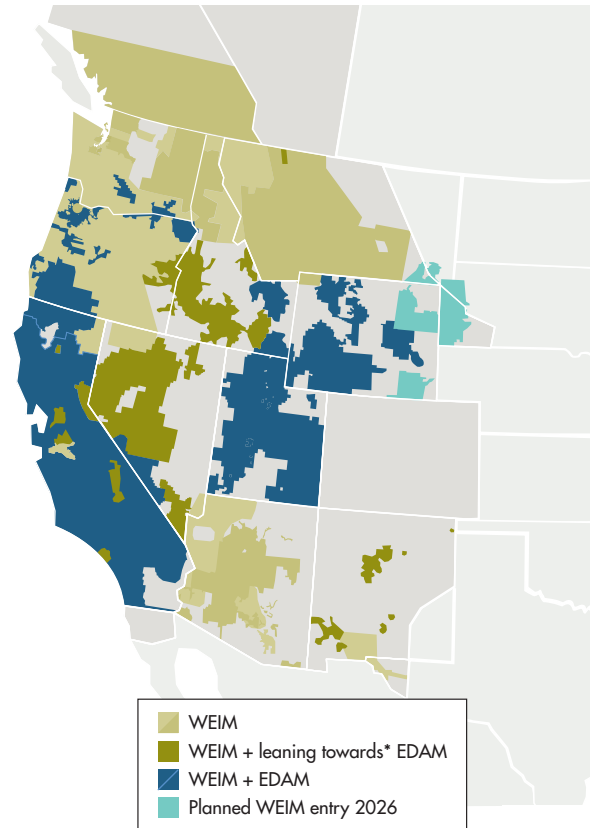
By leveraging the significant resource diversity and transmission connectivity between major supply and demand regions throughout the Western United States, the EDAM is designed to deliver additional benefits to those realized in the WEIM through greater reliability coordination and resource optimization.

The EDAM design was jointly approved by the ISO Board of Governors and the Western Energy Markets (WEM) Governing Body in February 2023, and the associated tariff has been fully approved by the Federal Energy Regulatory Commission (FERC).

The EDAM design has a number of important features that promote economic, reliability, and environmental benefits and supports Balancing Authority autonomy:

- *Voluntary participation structure.* Balancing Authorities participating in the WEIM can voluntarily elect whether and when to extend participation to the EDAM based on individual assessments, business needs, and readiness. The ISO will continue to fully support all entities' participation in the WEIM, regardless of whether they join the EDAM.
- *Low cost to participate with no exit fees.* The EDAM is built on an existing and proven infrastructure platform that minimizes costs to participate in the market, and won't impose exit fees if the participant later chooses to leave the market.
- *Daily resource sufficiency evaluation compatible with different Resource Adequacy and resource planning programs in the West.* The EDAM does not require participation in a specific Resource Adequacy program to share in the benefits of a market.
- Maximizes transmission connectivity to support efficient energy transfers among EDAM areas.
- Supports compliance with different greenhouse gas (GHG) state regulatory programs across the West through FERC-approved design.

The EDAM will launch in 2026 with the participation of PacifiCorp and Portland General Electric, with additional participants committed to join in 2027 and beyond.



*These entities have publicly indicated a leaning towards EDAM as their preferred day-ahead market.

The Benefits of EDAM

The day-ahead market efficiently positions supply to meet forecasted demand across the EDAM footprint and identifies economic transfers between participating areas, providing reliability, economic, and environmental benefits for participating balancing areas and their utilities.

Reliability benefits: By improving visibility and awareness of conditions across the footprint, including supply availability, a regional day-ahead market positions a diverse set of resources to cost-effectively meet the next day's conditions. A diverse and broad supply pool also allows the market to better respond to changes in conditions and extreme weather events, effectively reducing operational risk and the frequency and magnitude of emergency conditions.

Economic benefits: Operational benefits result from reduced production costs and optimized commitment of the least-cost resources to meet demand. Since demand peaks vary for individual balancing areas across the West, the day-ahead market seeks to efficiently commit supply to meet peak needs of the whole footprint providing the economic savings in serving load.

Environmental benefits: When excess renewable production occurs in one balancing area in the regional day-ahead market, the energy can be used to meet demand elsewhere, reducing the need for renewable resource curtailment.

In 2022, the ISO commissioned an EDAM Benefits Study from Energy Strategies, an independent energy consulting firm based in Salt Lake City. The study built on a prior State-led study conducted by Energy Strategies and quantified the following benefits, incremental to the WEIM, from a West-wide Extended Day-Ahead Market:

- Total annual operational savings for the West would be up to \$543 million per year from reduced power production expenses – a 4.5% decrease from the status quo;
- A West-wide EDAM would reduce CO2 emissions an estimated 2.92 million metric tons a year, equal to removing more than 634,000 vehicles from the road
- Additional potential savings could accrue through lower and shared planning reserve requirements and harmonization in resource procurement programs, providing additional capacity savings up to \$557 million per year across the West in avoided investments.
- If the full suite of EDAM benefits is realized, the entire West could save as much as \$1.2B annually.

In addition to the ISO's study, each of the prospective EDAM participants have commissioned studies concluding that participation would result in significant additional benefits, including increased cost savings, reduced renewable generation curtailments and a reduction in greenhouse gas emissions in the Western Electric Coordinating Council.

EDAM milestones:

Date	Milestone
2021-2022	Market design
February 2023	ISO Board of Governors & WEIM Governing Body approval
December 2023	EDAM tariff changes accepted by FERC
2024-2025	Implementation activities
2026	Anticipated onboarding of EDAM participants

OPERATIONS AND MAINTENANCE MANAGER REPORT

Alex Brown, P.E.
December 19, 2024

OPERATIONS:

Reservoir Data (A/F):

FACILITY	STORAGE	MONTH CHANGE
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OPERATIONS:

Reservoir Data (A/F):

FACILITY	STORAGE	MONTH CHANGE
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Donnells	17,334	(13,821)
Beardsley	43,973	4,907
Tulloch	53,658	(3,545)
New Melones	1,818,673	21,656

Outages:

Plant	Dates	Duration	Cause
Beardsley	11/4-21		Annual Maintenance
Sandbar	11/4-21		Annual Maintenance
Tulloch Unit #3	11/28	0:04 hrs	86E Loss of gate position Load transferred to #1

Operations Report:

New Melones Inflows:

Total inflows for water year 24/25 as of November 30: 69,367 A/F.

District Usage:

Total District usage for the water year 24/25 as of November 30: 30,133 A/F.

Precipitation:

Total precipitation for the month of November: 5.06 inches.

Other Activities:

1. Daily checks all powerhouses.
2. Cleared and restored Beardsley and Sandbar PH for annual maintenance.
3. Performed inspections of Beardsley Dam, Afterbay Dam, Tulloch Dam, and Goodwin Dam with DSOD.
4. Cycled Beardsley spill gate #1 under DSOD presence for approval of trunnion work and to restore normal operations.
5. Interviewed potential candidates for the Operator in Training position.

MAINTENANCE:

1. Beardsley annual maintenance completed. Highlights were the installation of the primary and back-up station service air compressors and accumulator tank, removal, replacement, and reprogramming of the main Beardsley RTU, and generator C02 saturation testing.
2. Sandbar annual maintenance completed. Highlights were completing the removal and replacement of the main RTU, and generator C02 saturation testing.
3. Beardsley and Sandbar C02 bottles were moved to Strawberry and picked up for hydro testing. Hydro testing per NFPA 70 E is to be completed every 12 years if they have not been discharged and every 5 years if they have been emptied.
4. Donnells Dam Generator developed an oil leak. Fortunately, it was still under warranty. Escorted the Generac Technician to the Dam and he was able to make the repair prior to the road being closed for the winter.
5. Open the Donnells Dam mini hydro water supply to full open for the winter.



New Quincy Air Compressors

BEARDSLEY PRECIPITATION

YEAR	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1958-59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	1.39	1.40	1.04	0.00	11.23
1959-60	0.00	0.03	3.09	0.00	0.00	1.92	5.74	8.38	4.68	2.45	0.35	0.00	26.64
1960-61	0.05	0.00	0.44	0.63	5.33	2.43	1.60	3.04	4.96	1.49	1.84	0.29	22.10
1961-62	0.21	1.12	0.77	0.70	3.39	2.98	2.04	15.32	6.13	1.12	1.04	0.02	34.84
1962-63	0.30	0.16	0.35	2.98	1.05	2.66	5.91	8.37	6.08	8.24	3.70	0.74	40.54
1963-64	0.00	0.44	0.59	2.63	7.81	0.81	5.84	0.21	3.02	2.01	2.44	1.64	27.44
1964-65	0.00	0.00	0.34	2.08	7.40	17.93	5.90	1.34	2.44	5.27	0.32	0.29	43.31
1965-66	0.00	1.47	0.60	0.47	12.38	4.59	1.68	2.33	1.00	2.39	0.43	0.10	27.44
1966-67	0.13	0.00	0.28	0.00	7.55	8.48	8.77	0.67	10.02	10.25	2.04	1.05	49.24
1967-68	0.00	0.39	0.90	0.54	2.47	3.35	4.94	4.81	3.48	0.73	1.44	0.02	23.07
1968-69	0.10	0.65	0.00	2.12	6.22	8.28	19.45	8.35	1.88	3.39	0.21	0.39	51.04
1969-70	0.00	0.00	0.55	3.41	2.98	6.46	17.06	3.11	3.43	2.50	0.00	3.17	42.67
1970-71	0.00	0.00	0.00	0.91	10.71	8.44	2.83	1.16	4.87	1.49	1.80	0.77	32.98
1971-72	0.00	0.02	0.29	1.22	6.22	10.31	2.39	2.78	1.01	4.03	0.10	1.62	29.99
1972-73	0.00	0.58	0.17	1.85	6.27	5.57	12.08	12.06	5.31	1.11	0.72	0.74	46.46
1973-74	0.05	0.18	0.07	3.65	9.88	9.10	5.08	1.84	8.18	5.15	0.02	0.07	43.27
1974-75	2.57	0.10	0.00	2.82	2.38	4.95	4.25	10.16	9.90	5.41	0.84	0.63	44.01
1975-76	0.03	2.02	0.15	6.75	2.04	0.74	0.49	3.03	2.66	2.42	0.91	0.05	21.29
1976-77	0.10	2.43	1.00	0.93	1.54	0.24	2.50	2.68	2.06	0.25	4.65	0.38	18.76 RECORD LOW
1977-78	0.00	0.00	0.58	0.24	4.76	9.72	10.85	8.31	8.67	7.97	0.19	0.23	51.52
1978-79	0.08	0.00	3.98	0.07	3.17	4.43	8.45	7.60	6.05	1.86	2.88	0.02	38.59
1979-80	0.17	0.03	0.00	4.66	4.63	5.22	14.62	13.03	3.61	3.09	4.33	0.77	54.16
1980-81	0.43	0.02	0.03	0.71	0.58	3.04	8.05	2.69	6.26	1.67	1.42	0.00	24.90
1981-82	0.06	0.00	0.15	5.27	8.76	8.39	6.08	8.08	11.23	8.19	0.12	1.34	57.67
1982-83	0.03	0.02	4.02	8.78	11.30	7.32	10.83	14.34	12.86	6.29	0.74	0.12	76.65 RECORD HIGH
1983-84	0.01	0.09	3.86	1.35	16.44	12.75	0.27	5.51	3.56	2.70	0.84	1.31	48.69
1984-85	0.00	0.05	0.73	3.97	10.28	2.58	1.52	3.13	5.84	0.86	0.07	0.28	29.31
1985-86	0.30	0.12	2.64	3.09	7.71	4.52	4.70	21.98	8.43	2.37	1.58	0.00	57.44
1986-87	0.02	0.00	2.18	0.00	0.49	0.73	3.42	5.89	5.21	0.79	1.63	0.15	20.51
1987-88	0.00	0.00	0.00	2.19	2.22	5.79	5.42	0.88	0.73	3.15	1.66	0.79	22.83
1988-89	0.00	0.00	0.05	0.07	6.96	4.29	1.45	2.73	10.08	1.41	0.74	0.02	27.80
1989-90	0.00	0.33	3.28	4.30	3.02	0.00	4.75	3.40	2.75	1.66	3.46	0.21	27.16
1990-91	0.00	0.11	0.59	0.41	1.62	1.30	0.40	1.79	16.08	1.74	2.54	1.54	28.12
1991-92	0.17	0.10	0.32	5.54	2.32	3.10	1.97	7.68	4.58	0.45	0.45	1.66	28.34
1992-93	3.26	0.35	0.00	3.05	0.44	9.61	12.19	8.74	6.29	2.07	1.24	2.43	49.67
1993-94	0.00	0.00	0.00	1.25	2.11	1.97	2.93	7.08	0.86	3.71	2.22	0.00	22.13
1994-95	0.00	0.00	0.77	2.82	7.92	3.68	18.32	1.14	18.76	6.98	6.72	1.02	68.13
1995-96	0.05	0.00	0.00	0.00	0.35	9.13	10.32	11.17	6.81	3.94	5.51	1.24	48.52
1996-97	0.05	0.01	0.23	2.55	7.14	16.19	18.16	0.80	0.53	0.82	0.51	1.24	48.23
1997-98	0.17	0.00	0.33	1.39	4.99	3.70	12.86	16.30	6.69	4.94	6.46	1.35	59.18
1998-99	0.00	0.00	2.84	0.49	5.12	3.13	8.93	9.71	2.63	3.03	1.28	1.03	38.19
1999-00	0.00	0.13	0.18	1.05	3.51	0.51	11.68	14.13	2.58	3.70	2.72	1.06	41.25
2000-01	0.00	0.07	0.96	3.17	1.01	1.59	4.69	4.70	3.08	5.39	0.00	0.07	24.73
2001-02	0.02	0.00	0.60	1.17	6.97	9.75	2.56	2.13	6.88	2.29	2.02	0.00	34.39
2002-03	0.00	0.00	0.09	0.00	7.42	11.17	1.12	3.50	3.81	9.36	2.69	0.00	39.16
2003-04	0.09	1.32	0.06	0.00	2.88	9.97	2.79	8.52	1.07	0.17	0.55	0.02	27.44
2004-05	0.02	0.00	0.19	7.66	2.93	6.67	10.52	6.95	9.35	3.35	5.76	0.80	54.20
2005-06	0.00	0.11	0.71	1.70	3.34	17.72	7.75	5.26	10.14	10.55	1.97	0.10	59.35
2006-07	0.08	0.00	0.01	1.53	3.56	5.25	2.08	8.70	1.30	2.61	1.33	0.10	26.55
2007-08	0.01	0.17	0.34	1.02	0.95	5.01	10.15	6.69	0.87	0.26	2.85	0.00	28.32
2008-09	0.00	0.00	0.00	1.65	6.17	5.08	5.88	6.98	6.78	1.97	3.37	0.79	38.67
2009-10	0.00	0.10	0.00	4.37	1.31	5.89	7.97	5.86	4.92	6.66	3.65	0.06	40.79
2010-11	0.00	0.00	0.00	8.67	7.15	14.21	2.15	5.76	15.22	1.94	2.94	3.21	61.25
2011-12	0.00	0.00	1.56	3.13	1.77	0.00	6.25	1.62	5.96	4.76	0.37	0.92	26.34
2012-13	0.00	0.00	0.00	1.27	5.78	12.56	0.64	0.93	3.26	1.11	1.48	0.80	27.83
2013-14	0.00	0.00	0.72	0.56	1.80	1.22	1.59	9.23	6.17	3.43	0.98	0.05	25.75
2014-15	0.52	0.03	1.03	0.15	3.72	7.25	0.13	4.49	0.43	3.08	2.75	0.80	24.38
2015-16	0.39	0.00	0.11	2.26	5.36	9.74	9.53	1.74	9.19	3.13	1.82	0.34	43.61
2016-17	0.00	0.00	0.00	7.26	3.19	8.30	22.25	20.47	5.49	8.06	0.59	0.46	76.07
2017-18	0.00	0.09	1.44	0.50	7.34	0.42	5.20	0.76	14.50	3.70	1.02	0.00	34.97
2018-19	0.00	0.00	0.00	1.92	8.21	3.07	9.84	15.37	8.97	2.07	7.43	0.46	57.34
2019-20	0.00	0.00	0.63	0.00	1.39	10.58	2.09	0.08	7.50	3.87	3.09	0.33	29.56
2020-21	0.00	0.23	0.10	0.00	2.38	3.40	7.28	2.44	2.83	1.31	0.18	0.00	20.15
2021-22	0.09	0.00	0.18	7.51	0.95	13.37	0.04	0.36	0.96	4.14	0.39	0.31	28.30
2022-23	0.00	0.29	2.27	0.02	3.83	12.65	21.85	5.43	15.48	0.22	1.12	1.10	64.26
2023-24	0.00	1.27	1.51	0.25	2.64	3.16	6.69	10.49	8.71	3.08	1.59	0.00	39.39
2024-25	0.00	0.06	0.03	0.53	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.68 Current Year
Average	0.15	0.21	0.74	2.23	4.70	6.18	6.74	6.15	5.88	3.38	1.88	0.63	38.87
2024-25 +/-	(0.15)	(0.15)	(0.71)	(1.70)	0.36	(6.18)	(6.74)	(6.15)	(5.88)	(3.38)	(1.88)	(0.63)	(33.19)

ANNUAL AVERAGE **38.87**

INCHES +/- ANNUAL AVERAGE **(33.19)**

Updated as of 11-Dec-24

PERCENT OF ANNUAL AVERAGE 15%

REGULATORY AFFAIRS BOARD REPORT

Tracey McKnight
December 19, 2024

FERC Compliance Updates:

- **Tulloch Erosion Project:** The initiation of the erosion control project at Site 3, located on the Tuolumne County side, is progressing smoothly. The amended project plans are currently under review by P&P. Once the revisions are finalized, the completed application will be submitted to CDFW for their approval and review.
- **Non-Native Invasive Plants (NNIP) Report (P. 2005):** Tri-Dam has successfully prepared the 5-Year Noxious Plant Report, along with detailed mapping, in compliance with FERC requirements. The report was submitted to our partners at the U.S. Forest Service for review. They provided positive feedback, expressing appreciation for our ongoing partnership. The completed report has been submitted to FERC as required.
- **Aquatic Nuisance Vegetation Management Plan (P. 2067) and Western Pond Turtle Habitat Survey:** Our consultant, Terry Strange, has completed both the Aquatic Nuisance Vegetation Management Plan and the Western Pond Turtle Habitat Survey, in alignment with FERC's compliance requirements. As part of the process, these reports were circulated to the designated resource agencies and stakeholder partners for a 30-day review period. Both reports have been successfully submitted to FERC.

Permit and Other Assignments Update:

- **Tulloch Day Use Area:**
 - Tri-Dam has submitted an application for a \$112,000 grant from the California State Boating and Waterways Department to fund erosion protection efforts and the installation of a new pay station kiosk at the Tulloch Day Use Area. If the grant is approved, a 26% matching contribution is required, as per the terms of the funding program. The grant period extends through the 2026/2027 fiscal year.
 - One of the restroom facilities remains out of order; however, repairs are anticipated to begin after the start of the New Year.
 - Ongoing landscaping and maintenance efforts are being carried out to ensure the continued improvement and upkeep of the area.
- **Safety Program Updates:**
 - The Compliance Coordinator continues to deliver weekly safety topics, covering critical issues such as icy weather conditions, hearing protection, and ladder safety. In addition, the Safety Committee has conducted a thorough review of safety concerns, prioritizing outstanding safety projects and evaluating potential hazards. Efforts are also focused on the establishment of organized safety stations at each powerhouse location, as well as at the Strawberry and Sonora offices.
 - Positive feedback regarding the safety program has been consistently received. Staff members are actively engaging with the safety topics presented each week. Stretch-and-flex exercises are also being well-received, contributing to overall employee well-being and safety.
- **Encroachment Permits and Site Reviews:**
 - I continue to work diligently on encroachment permits, site reviews, and compliance issues related to various properties at Tulloch. Our team is responding to daily inquiries from the public and coordinating with local marine safety units in both Calaveras and Tuolumne Counties. Recent actions include:
 - Completion of four final projects.
 - Processing of two new applications and no modifications.

Generation & Revenue Report

November 2024



Donnells							
	Average Generation (1958-2018)	2024 Net Generation (kWh)	Avoided Generation (kWh)	Resource Adequacy (kW)	Ancillary Services	2024 Budget	2024 Energy Revenue
JAN	17,389,989	13,451,010	-	72,000	65,660	\$1,770,582	\$1,551,192
FEB	17,229,608	15,496,866	-	72,000	63,710	\$1,782,992	\$1,642,956
MAR	23,070,659	18,883,610	-	72,000	63,690	\$1,513,854	\$1,881,262
APR	31,686,865	29,203,254	-	72,000	63,571	\$2,045,889	\$2,717,035
MAY	41,216,149	24,289,400	21,509,200	72,000	63,165	\$2,119,856	\$4,132,852
JUN	42,555,036	36,230,794	7,655,870	72,000	65,670	\$1,975,938	\$4,124,490
JUL	36,444,466	17,370,659	-	72,000	67,000	\$2,421,488	\$2,194,023
AUG	27,568,740	6,795,569	-	72,000	67,000	\$2,194,478	\$1,553,441
SEP	20,111,167	23,510,524	-	72,000	67,000	\$2,258,497	\$3,303,352
OCT	12,743,535	9,522,501	-	72,000	43,316	\$2,195,386	\$1,606,638
NOV	12,042,987	18,471,238	(1,187,800)	72,000	66,950	\$2,123,007	\$1,826,908
DEC	14,354,891		-				\$0
Total	296,414,092	213,225,425	27,977,270	792,000	696,732	\$22,401,967	\$26,534,150

Beardsley					
	Average Generation (1958-2018)	2024 Net Generation (kWh)	Resource Adequacy (kW)	2024 Budget	2024 Energy Revenue
JAN	3,150,048	2,526,874	4,300	\$210,026	\$240,961
FEB	2,927,753	2,602,705	2,740	\$137,175	\$236,163
MAR	3,584,274	3,947,943	2,000	\$132,375	\$347,523
APR	4,717,464	6,051,314	6,540	\$303,908	\$546,573
MAY	5,799,593	8,150,655	5,960	\$316,614	\$730,756
JUN	6,336,073	8,118,103	9,100	\$343,475	\$761,857
JUL	6,629,514	8,225,723	5,540	\$368,142	\$762,812
AUG	6,269,748	6,478,657	5,940	\$307,532	\$634,384
SEP	5,223,523	3,732,272	3,800	\$220,924	\$391,275
OCT	3,752,220	2,300,818	3,200	\$163,242	\$233,070
NOV	2,794,775	1,411,475	2,720	\$72,253	\$134,987
DEC	3,713,920				\$0
Total	54,898,907	53,546,537	51,840	\$2,575,666	\$5,020,362

Tulloch					
	Average Generation (1958-2018)	2024 Net Generation (kWh)	Resource Adequacy (kW)	2024 Budget	2024 Energy Revenue
JAN	4,271,885	5,772,875	3,870	\$298,186	\$517,752
FEB	5,024,913	8,080,003	7,970	\$320,156	\$730,745
MAR	7,580,691	12,945,175	12,420	\$322,441	\$1,162,965
APR	10,811,027	11,597,756	16,580	\$346,041	\$1,063,727
MAY	12,131,040	17,158,754	20,510	\$382,161	\$1,578,203
JUN	12,084,818	17,782,494	23,230	\$427,001	\$1,691,904
JUL	12,609,174	16,456,471	20,550	\$449,961	\$1,620,757
AUG	11,868,293	9,059,931	18,150	\$498,741	\$1,015,104
SEP	8,577,620	871,469	12,680	\$522,786	\$309,526
OCT	4,664,124	669,631	8,820	\$381,291	\$154,608
NOV	2,487,256	1,826,011	1,580	\$284,411	\$164,937
DEC	3,288,702				\$0
Total	95,399,542	102,220,570	146,360	\$4,233,176	\$10,010,229

Generation & Revenue Report (cont'd)

November 2024



Project Total						
	Average Generation (1958-2018)	2024 Net Generation (kWh)	Resource Adequacy (kW)	Ancillary Services	2024 Budget	2024 Energy Revenue
JAN	24,811,922	21,750,759	80,170	65,660	\$ 2,278,794	\$2,309,905
FEB	25,182,274	26,179,573	82,710	63,710	\$ 2,240,323	\$2,609,864
MAR	34,235,623	35,776,728	86,420	63,690	\$ 1,968,670	\$3,391,751
APR	47,215,356	46,852,324	95,120	63,571	\$ 2,695,838	\$4,327,335
MAY	59,146,782	71,108,009	98,470	63,165	\$ 2,818,631	\$6,441,811
JUN	60,975,928	69,787,260	104,330	65,670	\$ 2,746,414	\$6,578,251
JUL	55,683,154	42,052,854	98,090	67,000	\$ 3,239,591	\$4,577,592
AUG	45,706,781	22,334,157	96,090	67,000	\$ 3,000,751	\$3,202,930
SEP	33,912,310	28,114,265	88,480	67,000	\$ 3,002,207	\$4,004,154
OCT	21,159,879	12,492,949	84,020	43,316	\$ 2,739,919	\$1,994,317
NOV	17,325,019	20,520,924	76,300	66,950	\$ 2,479,671	\$2,126,832
DEC	21,357,513	-	-	-	\$ -	\$0
Total	446,712,540	396,969,802	990,200	696,732	\$29,210,809	\$41,564,741

142%

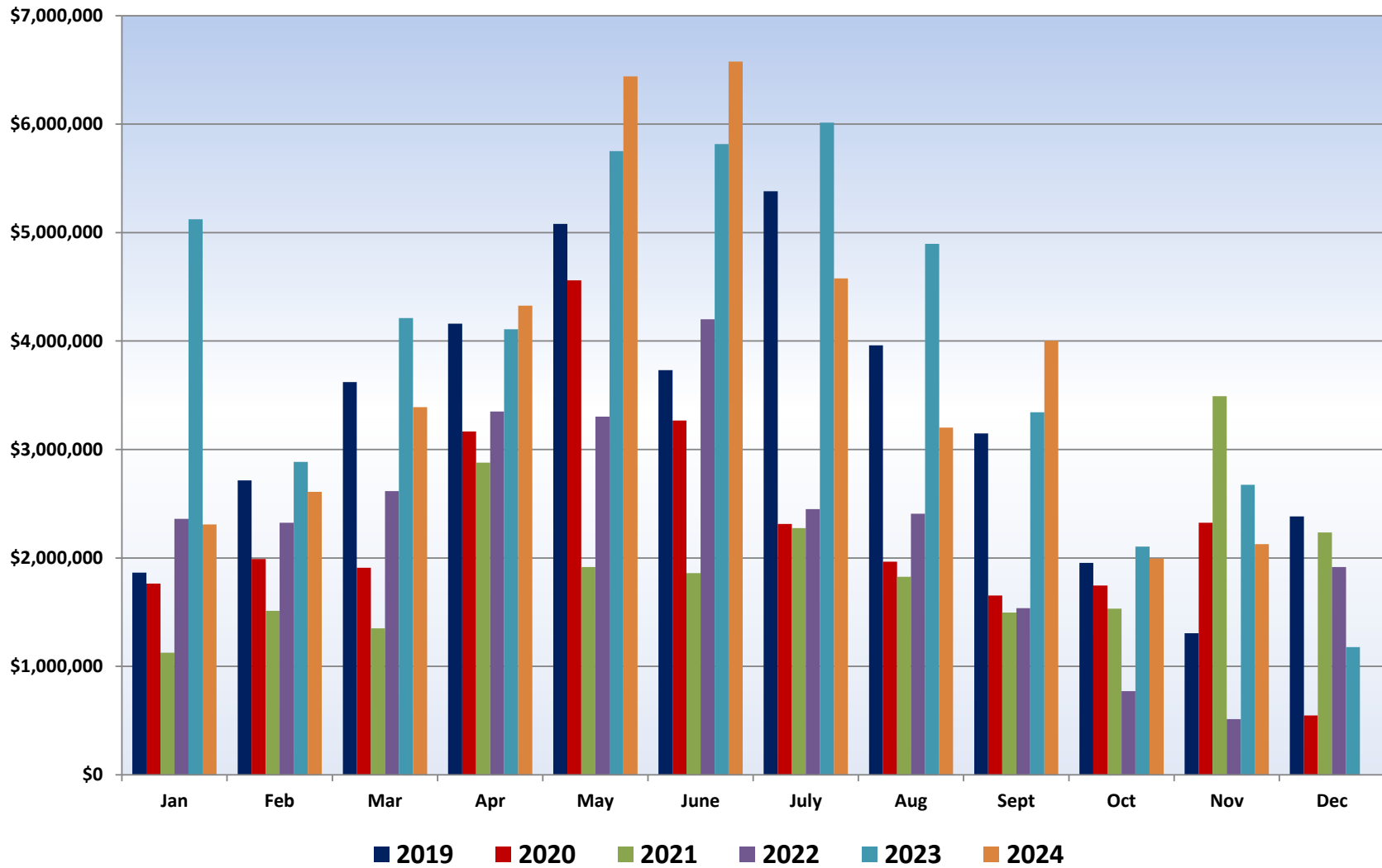
Tri-Dam Power Authority - Sandbar

	Average Generation (1958-2018)	2024 Net Generation (kWh)	Resource Adequacy (kW)	2024 Budget	2024 Energy Revenue
JAN	4,663,654	3,192,570	8,920	\$524,092	\$323,621
FEB	3,946,606	3,693,906	4,250	\$293,227	\$336,801
MAR	5,290,014	6,368,842	680	\$269,419	\$550,440
APR	6,873,822	9,305,525	6,470	\$588,271	\$826,155
MAY	8,065,189	11,394,752	6,640	\$639,604	\$1,013,149
JUN	8,750,023	10,830,143	6,600	\$634,702	\$977,592
JUL	9,133,101	11,222,018	5,420	\$667,954	\$1,019,294
AUG	8,560,581	8,642,465	3,570	\$569,914	\$789,662
SEP	6,928,285	5,059,601	3,190	\$435,770	\$494,141
OCT	4,898,944	3,393,053	700	\$285,502	\$299,503
NOV	2,947,604	1,963,671	5,810	\$83,476	\$197,926
DEC	5,554,123				\$0
Total	75,611,948	75,066,547	52,250	\$4,991,931	\$6,828,283

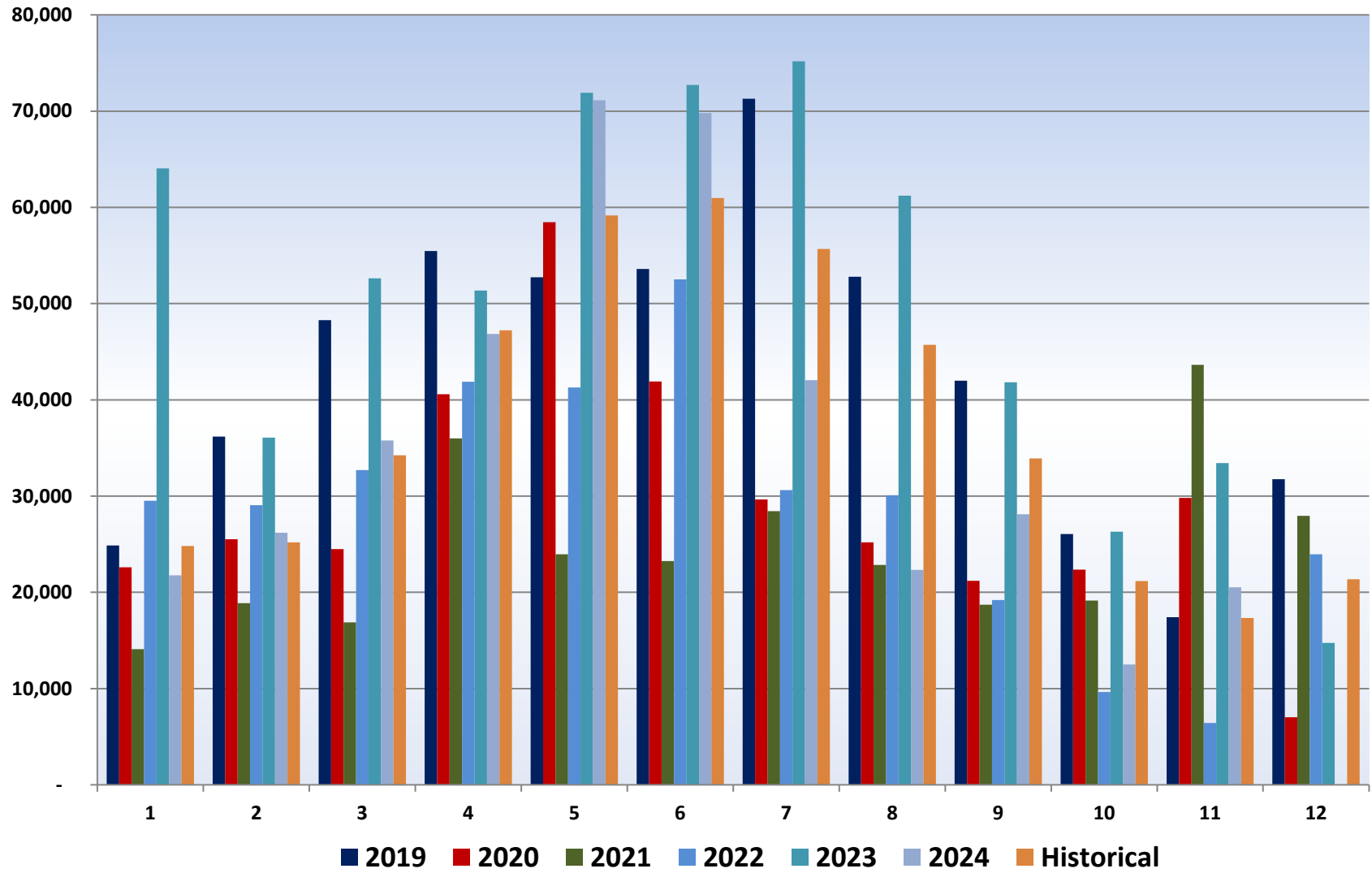
137%

Note: Price per MWh is \$81 at Donnells and \$86 at all other plants

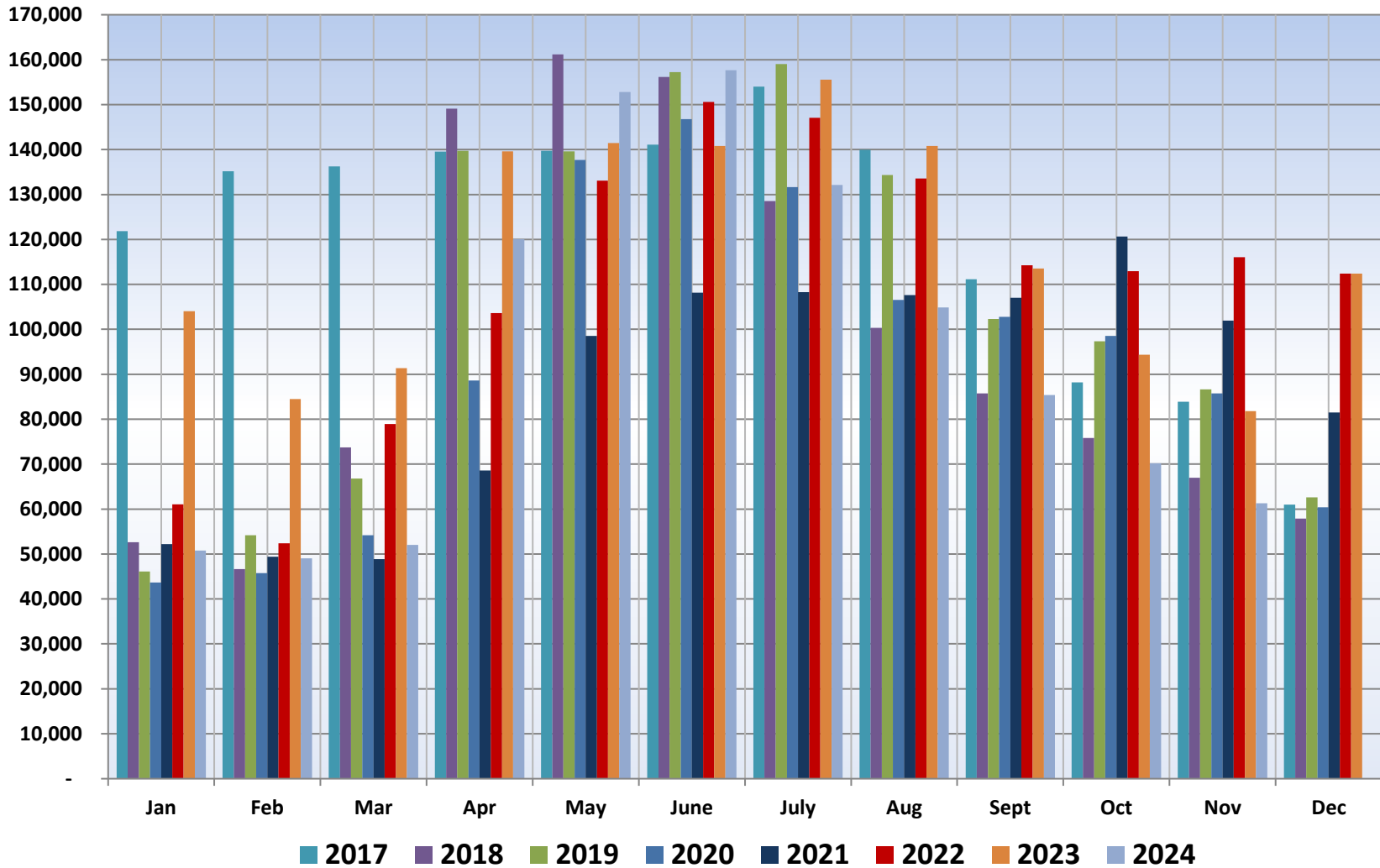
Tri-Dam Project Generation Revenue



Tri-Dam Project Total Generation - MWh



Tri-Dam Project Storage AF - Donnellis & Beardsley



SJB November Field Report

Fall-run Adult Migration Monitoring

A total of 1,570 Chinook salmon and three *O. mykiss* were observed in the Stanislaus River from November 1 to November 30, increasing the season total to 3,167 Chinook salmon (Figure 1) and nine *O. mykiss*. Thus far, total Chinook passage observed this season is more than 50% greater than that observed through November 2023 and almost 20% greater than the number observed in November 2022. Chinook passage at the weir to date is below average (mean: 4,232) since sampling began in 2003 (excluding 2011 when sampling started in mid-November due to high flows). Over the past decade, following the implementation of the constant fractional marking (CFP) program (fin clipping ~25% of hatchery production), the number of fin clipped salmon observed in the Stanislaus River have been roughly 23% or higher indicating that most, if not all, of the salmon migrating into the Stanislaus River are of hatchery origin. The number observed thus far in 2024 is slightly lower with 19% of the fish passing the Stanislaus River having their adipose fin clipped.

Trapping in the upstream livebox was conducted at the Stanislaus River weir during November to collect biological data (e.g., scales, fin clips, otoliths) from trapped *O. mykiss*. Zero *O. mykiss* were captured during the month, but a total of 47 Chinook salmon were captured. Trapping will continue through April targeting *O. mykiss*.

A total of 1,195 Chinook salmon were observed passing the Tuolumne River weir in November, increasing the season total to 1,868 (Figure 2). Total passage to date is similar to 2019 (1,902 fish) which was the largest number observed during the past six years and ranks 8th highest since weir monitoring began in 2009. To date, 16% of the Chinook passing the Tuolumne River weir have clipped adipose fins indicating that many of the fish migrating into the Tuolumne River this year are of hatchery origin; however, the number of adipose fin clipped fish in both the Stanislaus and Tuolumne rivers is 6-10% lower than the previous year.

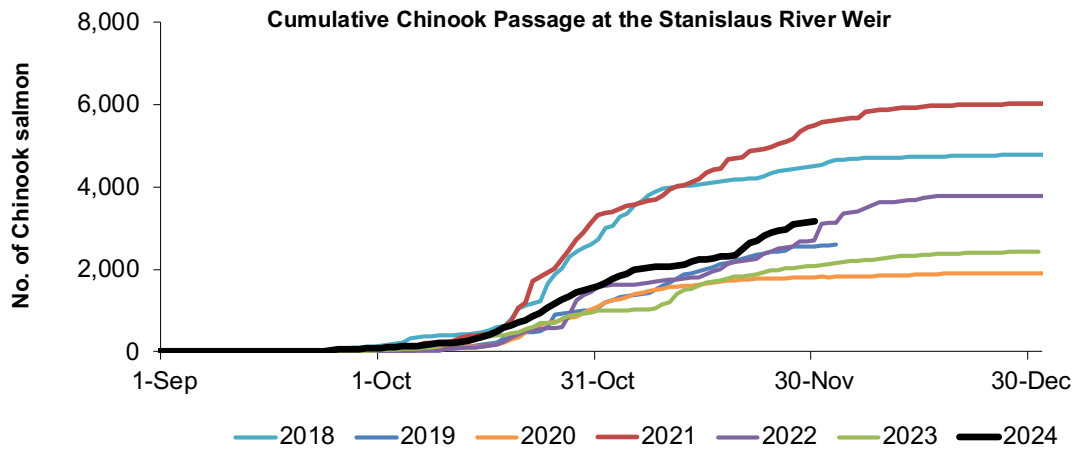


Figure 1. Cumulative Chinook salmon passage at the Stanislaus River weir, 2018-2024.

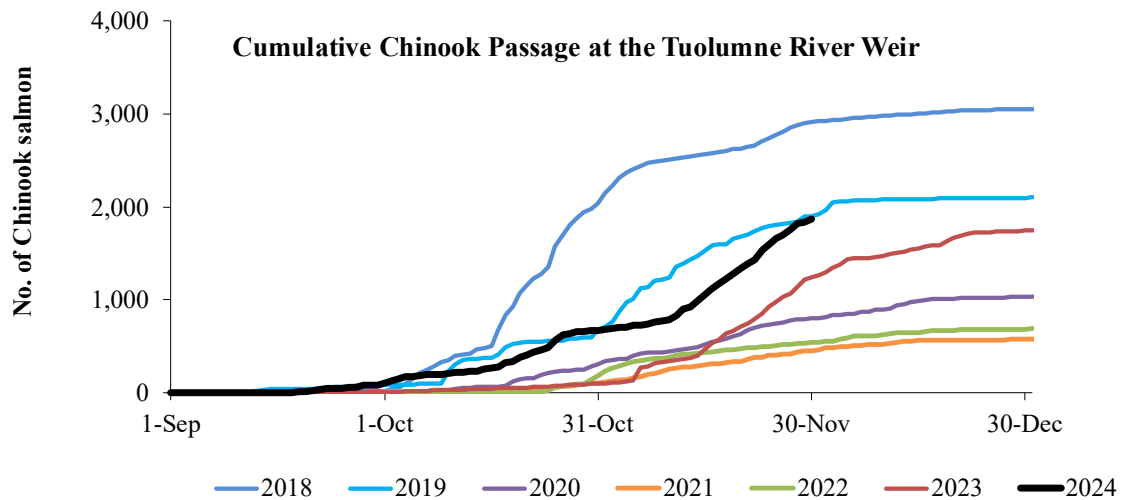


Figure 2. Cumulative Chinook salmon passage at the Tuolumne River weir, 2018-2024.

Chinook salmon counts on the Mokelumne River are available since 1940 and a new record has already been set in 2024 with still a month to go before the counting is complete. Through November 26, a total of 33,350 adult Chinook salmon have ascended the ladder at Woodbridge Dam. Almost 25,000 salmon were counted in October 2024 and another 8,500 in November 2024. Salmon counts in 2023 previously broke the 2017 record with a total of 28,655 Chinook salmon passing Woodbridge Dam.

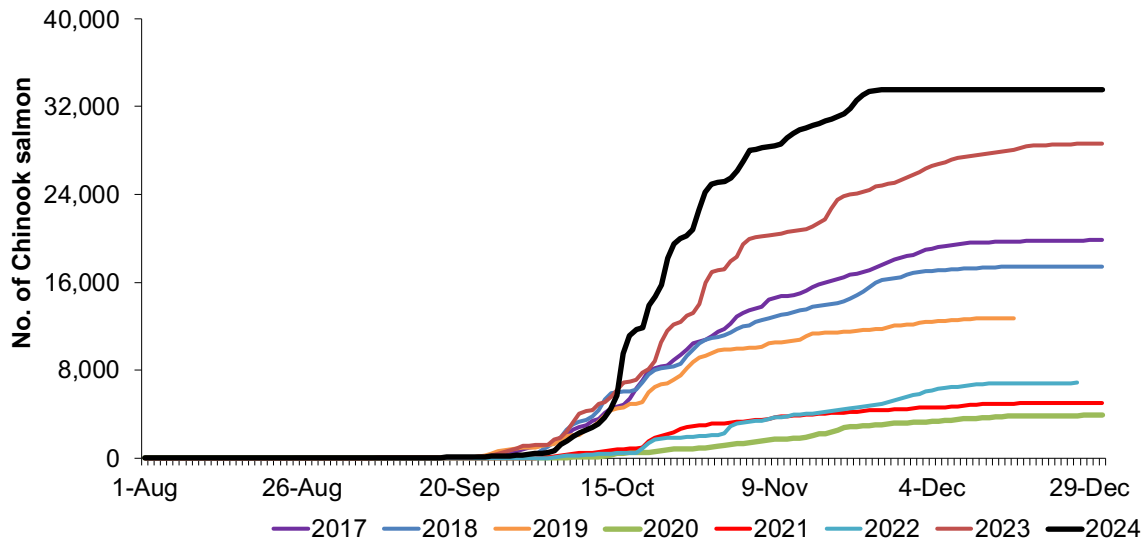


Figure 3. Cumulative Chinook salmon passage at the Mokelumne River fish ladder, 2017-2024.

Chinook redd surveys were conducted bi-weekly on the Tuolumne River in November. The number of redds observed increased during the month and peaked the last week in November, which follows the trend of passages seen at the weir during the month. Bi-weekly surveys will be conducted through December and through the spring to document *O. mykiss* spawning activity.

Stanislaus *O. mykiss* Sampling

Stanislaus River hook-and-line surveys were conducted on November 6 and November 12-14 between Knights Ferry and Orange Blossom Bridge. A total of 164 *O. mykiss* were captured, including six fish that were previously tagged by outside organizations (e.g., Cramer Fish Sciences) and three fish previously tagged by FISHBIO. Total length of fish captured ranged from 158 mm (6.2 inches) to 605 mm (23.8 inches; Figure 4). Tissue and scale samples were collected from all “new” fish. All adult *O. mykiss* (≥ 300 mm) also received a PIT tag before being released in good condition in the same area they were captured. One yearling Chinook was also captured and released in the Knights Ferry reach.



Figure 4. A 23.8-inch *O. mykiss* captured near Knights Ferry during the hook-and-line surveys.

Juvenile Outmigration Monitoring

Calaveras River rotary screw trap (RST) began sampling on November 5 and sampled a total of 16 days during the month. Zero YOY (<100 mm) and 45 Age 1+ (100-299 mm) *O. mykiss* have been captured so far this season (Figure 5). Forty-four *O. mykiss* were implanted with a Passive Integrated Transponder (PIT) tag to potentially track their movement in the Calaveras River and other water bodies. A rain event occurred in late November and the RST was able to fish during the initial increase, and then resumed sampling once receded to below 300 cfs.

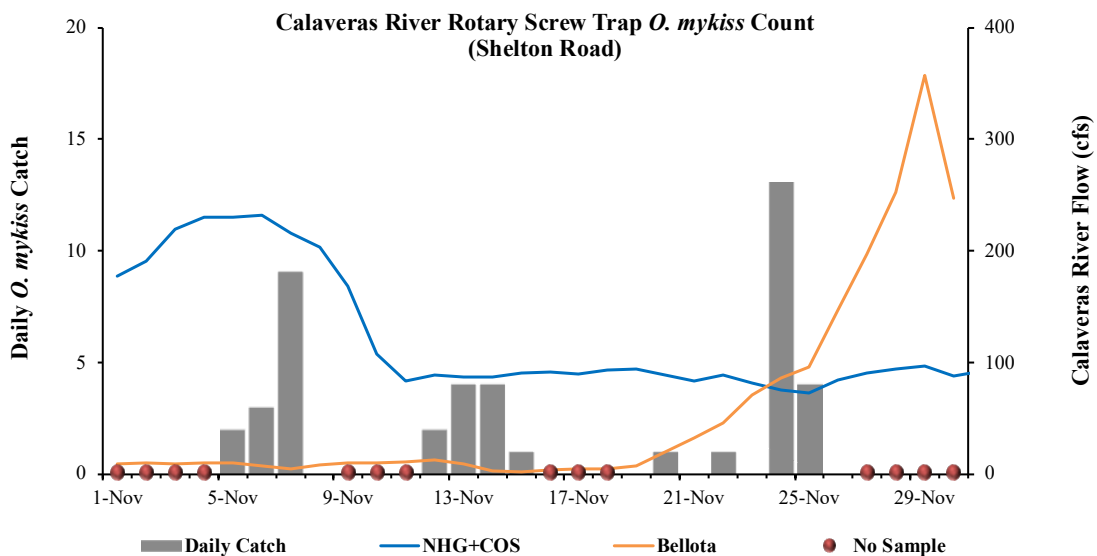


Figure 5. Daily *O. mykiss* catch at the Shelton Rd. RST and Calaveras River flow during 2024-25.

TRI-DAM

POWER

AUTHORITY

REGULAR BOARD MEETING
AGENDA
TRI-DAM POWER AUTHORITY
of THE OAKDALE IRRIGATION DISTRICT and
THE SOUTH SAN JOAQUIN IRRIGATION DISTRICT
DECEMBER 19, 2024
Start time is immediately following the Tri-Dam Project meeting
which begins at 9:00 AM

South San Joaquin Irrigation District
11011 Highway 120
Manteca, CA 95336

A COMPLETE COPY OF THE AGENDA PACKET WILL BE AVAILABLE ON THE TRI-DAM PROJECT WEB SITE (www.tridamproject.com) ON MONDAY, DECEMBER 16, 2024 AT 9:00 A.M. ALL WRITINGS THAT ARE PUBLIC RECORDS AND RELATE TO AN AGENDA ITEM WHICH ARE DISTRIBUTED TO A MAJORITY OF THE BOARD OF DIRECTORS LESS THAN 72 HOURS PRIOR TO THE MEETING NOTICED ABOVE WILL BE MADE AVAILABLE ON THE TRI-DAM PROJECT WEB SITE (www.tridamproject.com).

Members of the public who wish to attend and participate in the meeting remotely, as opposed to in-person, can do so via internet at <https://ssjid.zoom.us/j/98120276218> or by telephone, by calling 1 (669) 900-6833, Meeting ID: 981-2027-6218, Password: 700546. All speakers commenting on Agenda Items are limited to five (5) minutes.

Members of the public may also submit public comments in advance by e-mailing gmodrell@tridamproject.com by 3:00 p.m., Wednesday, December 18, 2024.

In compliance with the Americans with Disabilities Act, a person requiring an accommodation, auxiliary aid, or service to participate in this meeting should contact the Executive Assistant at (209) 965-3996 ext. 113, as far in advance as possible but no later than 24 hours before the scheduled event. Best efforts will be made to fulfill the request.

CALL TO ORDER

ROLL CALL: John Holbrook, David Roos, Glenn Spyksma, Billy Van Ryn, Mike Weststeyn, Brad DeBoer, Jacob DeBoer, Herman Doornenbal, Tom Orvis, Ed Tobias

PUBLIC COMMENT

Matters listed under the consent calendar are considered routine and will be acted upon under one motion. There will be no discussion of these items unless a request is made to the Board President by a Director or member of the public. Those items will be considered at the end of the consent items.

1. Approve the Regular Board Meeting Minutes of November 21, 2024
 2. Approve the Treasurer's Report and Financial Statements for the ten months ending October 31, 2024
 3. Approve the November Statement of Obligations
-

ACTION ITEMS

ITEMS 4 - 5

4. Consider adoption of Proposed 2025 Budget
 5. Consider approval and adoption of Resolution TPDA 2024-03 Election and Appointment of New Officers to the Tri-Dam Power Authority
-

ADJOURNMENT

ITEMS 6 - 7

6. Commissioner Comments
7. Adjourn to the next regularly scheduled meeting

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Genna Modrell

SUBJECT: Tri-Dam Power Authority November 2024 Minutes

RECOMMENDED ACTION: Approve the regular meeting minutes of November 21, 2024.

BACKGROUND AND/OR HISTORY:

Draft minutes attached.

FISCAL IMPACT: None

ATTACHMENTS: Draft minutes attached.

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

**TRI-DAM POWER AUTHORITY
MINUTES OF THE JOINT BOARD
OF COMMISSIONERS REGULAR MEETING**

November 21, 2024
Oakdale, California

The Commissioners of the Tri-Dam Power Authority met at the office of the Oakdale Irrigation District in Oakdale, California, on the above date for the purpose of conducting business of the Tri-Dam Power Authority, pursuant to the resolution adopted by each of the respective Districts on October 14, 1984.

President Tobias called the meeting to order at 10:32 a.m.

OID COMMISSIONERS

SSJID COMMISSIONERS

COMMISSIONERS PRESENT:

ED TOBIAS
HERMAN DOORNENBAL
BRAD DEBOER
TOM ORVIS

DAVID ROOS
DAVE KAMPER
MIKE WESTSTEYN
JOHN HOLBROOK

Also Present:

Summer Nicotero, General Manager, Tri-Dam Project; Genna Modrell, Executive Asst., Tri-Dam Project; Alex Brown, O & M Manager, Tri-Dam Project; Scot Moody, General Manager, OID; Sharon Cisneros, Chief Financial Officer, OID; Mia Brown, Counsel, SSJID

PUBLIC COMMENT

No public comment.

CONSENT CALENDAR

- ITEM #1 Approve the regular board meeting minutes of October 17, 2024**
- ITEM #2 Approve the Treasurer's Report and Financial Statements for the seven months ending September 30, 2024**
- ITEM #3 Approve the October statement of obligations**
- ITEM #4 Approval of the 2025 Board Meeting Schedule**

Commissioner Weststeyn moved to approve items one, two, three and four under the consent calendar as presented. Commissioner Orvis seconded the motion.

The motion passed by the following roll call vote:

AYES: DeBoer, Doornenbal, Orvis, Tobias, Holbrook, Kamper, Roos, Weststeyn

NOES: None

ABSTAINING: None

ABSENT: Santos, Spyksma

DISCUSSION

ITEM #5 Preliminary 2025 Budget Draft – hand carried

Summer Nicotero presented the 2025 draft budget and responded to Director questions.

ITEM #6 Commissioner Comments

None.

ITEM #7 ADJOURNMENT

President Tobias adjourned the meeting at 10:40 a.m.

The next Board of Commissioners meeting is scheduled for December 19, 2024, at the offices of South San Joaquin Irrigation District immediately following the Tri-Dam Project meeting, which commences at 9:00 a.m.

ATTEST:

Summer Nicotero, Secretary
Tri-Dam Power Authority

DRAFT

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Sharon Cisneros

SUBJECT: Tri-Dam Power Authority Treasurer's Report and Financial Statements for the Ten Months ending October 31, 2024

RECOMMENDED ACTION: Approve the Treasurer's Report and Financial Statements for the Ten Months ending October 31, 2024

BACKGROUND AND/OR HISTORY:

The Tri-Dam Power Authority (TDPA) Treasurer's report provides the total Treasury Funds as of October 31, 2024. The month ended with \$6.7 million in operating cash and \$1.2 million in funds invested at LAIF.

As of the financial statement date of October 31, 2024, the TDPA has realized 121.8% of its annual budgeted operating revenues for 2024 and utilized 81.9% of its budgeted operating expenses. Additional Information is provided within the attached reports.

FISCAL IMPACT: none

ATTACHMENTS: Financial Statements 10/31/2024 (unaudited)

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

**TREASURER'S REPORT TO THE BOARD OF DIRECTORS
 TRI-DAM POWER AUTHORITY
 STATEMENT OF FUNDS
 FOR THE PERIOD ENDING OCTOBER 31, 2024**

ACCOUNTS	10/31/2024	RATE	9/30/2024	NET CHANGE
LAIF	\$1,179,149	4.71%	\$1,165,330	\$13,819
OAK VALLEY COMMUNITY BANK CHECKING	\$6,654,151		\$6,399,769	\$254,382
<i>TOTAL TREASURY FUNDS</i>	<u>\$7,833,300</u>		<u>\$7,565,099</u>	<u>\$268,201</u>

Tri-Dam Power Authority

Statement of Net Position

October 31, 2024

(unaudited)

	2024	2023	
Assets			
Cash	\$ 6,654,151	\$ 9,326,518	
Investments	1,179,149	1,128,806	
Accounts Receivable	370,665	447,417	
Prepaid Expenses	143,966	105,702	
Inventory	5,424	5,424	
Capital Assets	45,527,842	45,414,478	
Accumulated Depreciation	(23,868,554)	(23,411,398)	
Total Assets	30,012,641	33,016,947	
 Liabilities			
Accounts Payable	2,529	286	
Due to Tri-Dam Project	37,400	48,411	
Total Liabilities	39,929	48,697	
 Net Position			
Net Position - Beginning of Year	33,799,906	29,672,949	
Distributions	(9,490,000)	(4,400,000)	
YTD Net Revenues	5,662,806	7,695,301	
Total Net Position	29,972,712	32,968,250	
 Total Liabilities and Net Position	 \$ 30,012,641	 \$ 33,016,947	



Tri-Dam Power Authority

Statement of Revenues and Expenses

Period Ending October 31, 2024

	MTD Budget	MTD Actual	MTD Budget Variance	Budget Variance %	Prior Year MTD Actual	Prior Year MTD Var	Prior Year Variance %
Operating Revenues							
1 Power Sales	\$ 458,333	\$ 370,664	\$ (87,669)	-19.1%	\$ 447,417	\$ (76,753)	-17.2%
2 Other Operating Revenue	-	-	-	-	-	-	-
3 Total Operating Revenues	<u>458,333</u>	<u>370,664</u>	<u>(87,669)</u>	<u>-19.1%</u>	<u>447,417</u>	<u>(76,753)</u>	<u>-17.2%</u>
Operating Expenses							
4 Salaries and Wages	24,533	25,062	529	2.2%	18,282	6,780	37.1%
5 Benefits and Overhead	9,267	10,281	1,014	10.9%	6,760	3,521	52.1%
6 Operations	917	616	(301)	-32.8%	352	264	75.0%
7 Maintenance	1,333	1,969	636	47.7%	372	1,597	429.3%
8 General & Administrative	43,925	2,233	(41,692)	-94.9%	8,523	(6,290)	-73.8%
9 Depreciation Expense	30,589	41,000	10,411	34.0%	75,200	(34,200)	-45.5%
10 Total Operating Expenses	<u>110,564</u>	<u>81,161</u>	<u>(29,403)</u>	<u>-26.6%</u>	<u>109,489</u>	<u>(28,328)</u>	<u>-25.9%</u>
11 Net Income From Operations	347,769	289,503	(58,266)	-16.8%	337,928	(48,425)	-14.3%
Nonoperating Revenues (Expenses)							
12 Investment Earnings	-	14,100	14,100	0.0%	283	13,817	4882.3%
13 Gain/(Loss) on Asset Disposal	-	-	-	-	-	-	0.0%
14 Other Income	-	-	-	-	-	-	-
15 Total Nonoperating Revenues (Expenses)	<u>-</u>	<u>14,100</u>	<u>14,100</u>	<u>0.0%</u>	<u>283</u>	<u>13,817</u>	<u>4882.3%</u>
16 Net Revenues	<u>\$ 347,769</u>	<u>\$ 303,603</u>	<u>\$ (44,166)</u>	<u>-12.7%</u>	<u>\$ 338,211</u>	<u>\$ (34,608)</u>	<u>-10.2%</u>



Tri-Dam Power Authority

Statement of Revenues and Expenses

Period Ending October 31, 2024

	YTD Budget	YTD Actual	YTD Budget Variance	Budget Variance %	Prior Year Actual	Prior Year Variance	Prior Year Variance %
1 Operating Revenues							
2 Power Sales	\$ 4,583,333	\$ 6,700,980	\$ 2,117,647	46.2%	\$ 8,731,114	\$ (2,030,134)	-23.3%
3 Other Revenue	-	-	-	-	-	-	-
4 Total Operating Revenues	<u>4,583,333</u>	<u>6,700,980</u>	<u>2,117,647</u>	<u>46.2%</u>	<u>8,731,114</u>	<u>(2,030,134)</u>	<u>-23%</u>
5							
6 Operating Expenses							
7 Salaries and Wages	245,333	211,031	(34,302)	-14.0%	207,998	3,033	1.5%
8 Benefits and Overhead	92,667	80,364	(12,303)	-13.3%	75,872	4,492	5.9%
9 Operations	9,167	10,006	839	9.2%	7,931	2,075	26.2%
10 Maintenance	13,333	16,546	3,213	24.1%	8,134	8,412	103.4%
11 General & Administrative	439,250	358,591	(80,659)	-18.4%	341,181	17,410	5.1%
12 Depreciation Expense	305,890	410,000	104,110	34.0%	442,268	(32,268)	-7.3%
13 Total Operating Expenses	<u>1,105,640</u>	<u>1,086,538</u>	<u>(19,102)</u>	<u>-1.7%</u>	<u>1,083,384</u>	<u>3,154</u>	<u>0.3%</u>
14							
15 Net Income From Operations	3,477,693	5,614,442	2,136,749	61.4%	7,647,730	(2,033,288)	-26.6%
16							
17 Nonoperating Revenues (Expenses)							
18 Investment Earnings	-	48,364	48,364	0.0%	47,570	794	1.7%
19 Gain/(Loss) on Asset Disposal	-	-	-	-	-	-	0.0%
20 Other Income	-	-	-		-		
21 Total Nonoperating Revenues (Expenses)	<u>-</u>	<u>48,364</u>	<u>48,364</u>	<u>0.0%</u>	<u>47,570</u>	<u>794</u>	<u>1.7%</u>
22							
23 Net Revenues	<u>\$ 3,477,693</u>	<u>\$ 5,662,806</u>	<u>\$ 2,185,113</u>	<u>62.8%</u>	<u>\$ 7,695,300</u>	<u>\$ (2,032,494)</u>	<u>-26.4%</u>
24							

Tri-Dam Authority Capital Expenditures 2024 Budget to Actuals

Project & Purchase Description	Amended Budget 2024	2024 Actual YTD Expenditures	Remaining Budget
1 Sandbar PH 115kV Pole Replace/Repair	1,000,000	1,181	998,819
2 Sandbar PH Bridge Board Repair	70,000	2,588	67,412
3 Sandbar PH Flowmeter	100,000	-	100,000
4 Intake Trash Rack Replacement	10,000		
5 Underground Beardsley PH to Sandbar Intake	750,000		
6 Roof ReSeal SPH	30,000		
7 Upgrade SCADA RTU/RTAC	-	41,607	(41,607)
Total Capital	\$ 1,960,000	\$ 45,376	\$ 1,124,624

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Genna Modrell

SUBJECT: Tri-Dam Power Authority November Statement of Obligations

RECOMMENDED ACTION: Approve the November Statement of Obligations.

BACKGROUND AND/OR HISTORY:

Submitted for approval is the November Statement of Obligations for Tri-Dam Power Authority.

FISCAL IMPACT: See Attachments

ATTACHMENTS: Tri-Dam Power Authority Statement of Obligations

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

Tri-Dam Power Authority

Statement of Obligations

November 1, 2024 to November 30, 2024

**TRI-DAM POWER AUTHORITY
STATEMENT OF OBLIGATIONS**

Period Covered
November 1, 2024 to November 30, 2024

Total Obligations: **6** **checks** **in the amount of** **\$3,755.31**
(See attached Vendor Check Register Report)

CERTIFICATION

OAKDALE IRRIGATION DISTRICT

SOUTH SAN JOAQUIN IRRIGATION DISTRICT

Brad DeBoer

John Holbrook

Jacob DeBoer

David Roos

Herman Doornenbal

Glenn Spyksma

Thomas D. Orvis

Billy Van Ryn

Ed Tobias

Mike Weststeyn

To: Peter Rietkerk, SSJID General Manager:

THE UNDERSIGNED, EACH FOR HIMSELF, CERTIFIES THAT HE IS PRESIDENT OR SECRETARY OF THE TRI-DAM POWER AUTHORITY; THAT THE AMOUNTS DESIGNATED ABOVE HAVE BEEN ACTUALLY, AND NECESSARILY AND PROPERLY EXPENDED OR INCURRED AS AN OBLIGATION OF THE TRI-DAM POWER AUTHORITY FOR WORK PERFORMED OR MATERIALS FURNISHED FOR OPERATIONS AND MAINTENANCE OF THE SAND BAR PROJECT; THAT WARRANTS FOR PAYMENT OF SAID AMOUNTS HAVE BEEN DRAWN ON THE SAND BAR PROJECT O & M CHECKING ACCOUNT AT OAK VALLEY COMMUNITY BANK, SONORA, CALIFORNIA.

TRI-DAM POWER AUTHORITY
PRESIDENT,

TRI-DAM POWER AUTHORITY
SECRETARY,

Ed Tobias, President Date

Summer Nicotero, Secretary Date

Authority

November Checks



Check	Vendor No	Vendor	Date	Description	Amount
208433	11511	Amazon Capital Services, Inc.	11/14/2024		628.64
208434	10333	Grainger Inc. W. W.	11/14/2024		322.03
208435	10439	McMaster-Carr Supply Co.	11/26/2024		262.89
208436	10500	OID ~ Routine	11/26/2024	Finance/Admin Reimbursement	2233.49
208437	10516	Pacific Gas & Electric Co.	11/26/2024		295.8
208438	10749	UPS	11/26/2024		12.46

Report Total: \$ 3,755.31

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Summer Nicotero

SUBJECT: Fiscal Year 2025 Proposed Budget

RECOMMENDED ACTION: Presentation and Discussion of 2025 Proposed Budget

BACKGROUND AND/OR HISTORY:

The Fiscal Year 2025 Budget was developed based on an average water year. The Power Purchase Agreement with Silicon Valley Power allows for a decline in price per megawatt each year. This decrease will result in a loss of power sales revenue of \$400,000 over current year budget.

The proposed budget includes an overall increase in operating expense budget of \$262,000. The main driver of the increases are primarily maintenance increases of \$55,000 for divers to remove rocks from the draft tube after manual removal was not successful, vegetation removal costs along the powerline system, and increased safety measures. An additional maintenance increase of \$18,000 reflects the allocation of maintenance costs from Project to Authority for equipment rental that were not included in the current year budget. Payroll increases are driven by full headcount, contract wage increases, and benefit cost increases. The non-cash increase from depreciation is due to the capitalization of large projects and an under-projection from last year. For most items this is a status quo budget with allowances for inflationary increases.

The revenues are estimated on the conservative side with a median energy sales projection.

Capital expenditures are primarily carry-over from 2024. We have pushed several projects from 2025 to 2026 to allow for completion of the large projects we are carrying over from 2024.

FISCAL IMPACT: Increase in net position of \$2.4 million before distributions

ATTACHMENTS: Proposed 2025 Budget

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

TRI-DAM POWER AUTHORITY

2025 PROPOSED BUDGET



Tri-Dam Authority 2025 Proposed Budget

	2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Amended Budget		Change from 2024 Projection		
Operating Revenues										
1	Power Sales	\$ 5,365,624	\$ 9,707,963	\$ 5,500,000	\$ 7,100,000	\$ 5,100,000	\$ (400,000)	-7%	\$ (2,000,000)	-28%
	Total Operating Revenues	5,365,624	9,707,963	5,500,000	7,100,000	5,100,000	(400,000)	-7%	(2,000,000)	-28%
Operating Expenses										
2	Salaries and Wages	297,557	267,062	294,400	283,800	321,000	26,600	9%	37,200	13%
3	Benefits and Overhead	107,129	99,898	111,200	108,500	126,100	14,900	13%	17,600	16%
4	Operations	5,475	21,694	11,000	12,000	13,650	2,650	24%	1,650	14%
5	Maintenance	47,934	15,278	16,000	49,300	96,500	80,500	503%	47,200	96%
6	General & Administrative	303,797	340,093	527,100	377,000	517,100	(10,000)	-2%	140,100	37%
7	Depreciation Expense	493,325	489,424	367,068	490,000	514,500	147,432	40%	24,500	5%
8	Total Operating Expenses	1,255,217	1,233,449	1,326,768	1,320,600	1,588,850	262,082	20%	268,250	20%
9	Net Income From Operations	4,110,407	8,474,514	4,173,232	5,779,400	3,511,150	(662,082)		(2,268,250)	
Nonoperating Revenues (Expenses)										
11	Investment Earnings	1,964	52,444	-	53,100	45,000	45,000	0%	(8,100)	0%
12	Gain/Loss on Asset Disposal	6,625	-	-	-	-	-	0%	-	0%
	Total Nonoperating Revenues (Expenses)	8,589	52,444	-	53,100	45,000	45,000	0%	(8,100)	0%
	Net Income Before Capital Expenses	\$ 4,118,996	\$ 8,526,958	\$ 4,173,232	\$ 5,832,500	\$ 3,556,150	\$ (617,082)	-15%	\$ (2,276,350)	-39%

Tri-Dam Authority 2025 Proposed Budget Operations Department Expenses



Operations Summary

	2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Amended Budget		Change from 2024 Projection	
1 Salaries and Wages	\$ 147,686	\$ 158,987	\$ 166,400	\$ 179,800	\$ 187,000	\$ 20,600	12%	\$ 7,200	4%
2 Benefits and Overhead	48,797	56,300	57,200	65,500	68,100	10,900	19%	2,600	4%
Operations Dept Labor Exp	196,483	215,287	223,600	245,300	255,100	31,500		9,800	
3 Powerhouse Supplies/Furnishings	-	(64)	-	1,400	1,000	1,000	0%	(400)	-29%
4 Powerhouse Utilities	3,820	4,001	4,500	4,500	5,175	675	15%	675	15%
5 Consulting-Reliability/Engineering	-	11,104	-	-	-	-	0%		0%
6 Streamgauging	1,655	6,653	6,500	6,100	7,475	975	15%	1,375	23%
Non-Labor Operations Exp	5,475	21,694	11,000	12,000	13,650	2,650		1,650	
Total Operations Dept Exp	\$ 201,958	\$ 236,981	\$ 234,600	\$ 257,300	\$ 268,750	\$ 34,150	15%	\$ 11,450	4%

Tri-Dam Authority 2025 Proposed Budget Maintenance Department Expenses

		2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Amended Budget		Change from 2024 Projection	
Maintenance Summary										
1	Salaries and Wages	\$ 87,072	\$ 54,719	\$ 63,000	\$ 79,000	\$ 66,000	\$ 3,000	5%	\$ (13,000)	-16%
2	Benefits and Overhead	38,351	21,714	27,000	31,000	29,000	2,000	7%	(2,000)	-6%
	Maintenance Dept Labor Exp	125,423	76,433	90,000	110,000	95,000	5,000	6%	(15,000)	-14%
3	Safety Supplies	68	150	-	13,610	15,000	15,000	100%	1,390	10%
4	Maintenance & Repairs	34,160	8,696	9,000	5,000	6,000	(3,000)	-33%	1,000	20%
5	Electrical & Electronic Expense	3,166	1,959	3,000	8,700	10,000	7,000	233%	1,300	15%
6	Hydro Expenses	6	-	-	-	30,000	30,000	100%	30,000	100%
7	Powerline maintenance/veg rem	1,016	-	-	-	10,000	10,000	100%	10,000	100%
8	Communication Systems	4,955	348	-	1,000	1,000	1,000	100%	-	0%
9	Haz Mat Business Plan	379	379	500	1,000	1,000	500	100%	-	0%
10	Shop Supplies	-	134	500	500	500	-	0%	-	0%
11	Equipment Rent from Project	-	-	-	-	-	-	0%	-	0%
12	Fuel Expenses	3,401	3,612	3,000	1,500	3,000	-	0%	1,500	100%
13	Equipment Operation & Maintenance	-	-	-	16,990	18,000	18,000	100%	1,010	6%
14	Routine Road Maintenance	783	-	-	1,000	2,000	2,000	100%	1,000	100%
	Non-Labor Maintenance Expenses	47,934	15,278	16,000	49,300	96,500	80,500		47,200	
	Maintenance Dept Expenses	\$ 173,357	\$ 91,711	\$ 106,000	\$ 159,300	\$ 191,500	\$ 85,500	81%	\$ 32,200	20%



Tri-Dam Authority 2025 Proposed Budget Administration Department Expenses

		2022 Actual	2023 Actual	Amended 2024 Budget	2024 Projection	2025 Proposed Budget	Change from 2024 Amended Budget		Change from 2024 Projection	
Administration Summary										
1	Salaries and Wages	\$ 62,799	\$ 53,356	\$ 65,000	\$ 25,000	\$ 68,000	\$ 3,000	5%	\$ 43,000	172%
2	Benefits and Overhead	19,984	21,884	27,000	12,000	29,000	2,000	7%	17,000	142%
	Administration Dept Labor Exp	82,783	75,240	92,000	37,000	97,000	5,000	5%	60,000	162%
3	Professional Services Consulting	5,567	16,979	15,000	14,000	12,000	(3,000)	-20%	(2,000)	-14%
4	Office & Administrative expense	-	439	1,100	1,000	1,100	-	0%	100	10%
5	APPA & NHA Dues	7,275	8,974	12,000	11,000	12,000	-	0%	1,000	9%
6	Legal Fees	40,033	52,994	100,000	8,000	100,000	-	0%	92,000	1150%
7	Auditor Services	6,720	9,210	13,000	9,000	14,000	1,000	8%	5,000	56%
8	Liability & Property Insurance	177,471	231,189	312,000	270,000	297,000	(15,000)	-5%	27,000	10%
9	Property Taxes	-	-	-	4,000	4,000	4,000	100%	-	0%
10	FERC License Fees	26,063	20,308	27,000	25,000	27,000	-	0%	2,000	8%
11	USFS Sandbar Collection Agreement	40,668	-	47,000	35,000	50,000	3,000	6%	15,000	43%
	Non-Labor Administration Expenses	303,797	340,093	527,100	377,000	517,100	(10,000)		140,100	
	Administrative Dept Expenses	\$ 386,580	\$ 415,333	\$ 619,100	\$ 414,000	\$ 614,100	\$ (5,000)	-1%	\$ 200,100	48%

**Tri-Dam Authority
Capital Expenditures Budget
2025 Proposed Budget**

Expenditure	Budget 2024	2024 Projection	Proposed Budget 2025	2026
1 Sandbar PH Flowmeter	100,000	50,000	-	-
2 Sandbar PH 115kV Pole Replace/Repair	1,000,000	1,500	1,000,000	-
3 Sandbar PH Bridge Repair	70,000	2,588	50,000	-
4 Intake Trash Rack Replacement	10,000	-	10,000	-
5 Underground Beardsley PH to Sandbar Intake	750,000	-	50,000	-
6 Roof ReSeal SPH	30,000	-	50,000	-
7 Gateshaft Governor Retrofit	-	-	-	150,000
8 Exciter/Bridge Replacement	-	-	-	200,000
Total Capital	\$ 1,860,000	\$ 4,088	\$ 1,160,000	\$ 350,000

BOARD AGENDA REPORT

Date: 12/19/2024
Staff: Summer Nicotero

SUBJECT: REVIEW AND TAKE POSSIBLE ACTION TO ADOPT A RESOLUTION ON THE ELECTION AND APOINTMENT OF NEW OFFICERS TO THE TRI-DAM POWER AUTHORITY BOARD

RECOMMENDED ACTION: Approve Adoption of Resolution TDPA 2024-03 on the Election and Appointment of New Officers to the Tri-Dam Power Authority Board

BACKGROUND AND/OR HISTORY:

The attached Resolution for the Election and Appointment of New Officers to the Board is consistent with the requirements of the Joint Exercise of Powers Agreement by and between Oakdale Irrigation District and South San Joaquin Irrigation District forming "Tri-Dam Power Authority" dated October 14, 1982.

Per the agreement, annual election and appointment is required.

FISCAL IMPACT: None

ATTACHMENTS: Resolution TDPA 2024-03, Election and Appointment of New Officers

Board Motion:

Motion by: _____ **Second by:** _____

VOTE:

OID: B. DeBoer (Yes/No) J. DeBoer (Yes/No) Doornenbal (Yes/No) Orvis (Yes/No) Tobias (Yes/No)

SSJID: Holbrook (Yes/No) Roos (Yes/No) Spyksma (Yes/No) Van Ryn (Yes/No) Weststeyn (Yes/No)

TRI-DAM POWER AUTHORITY RESOLUTION NO. TDPA 2024-03
Oakdale Irrigation District
South San Joaquin Irrigation District

ELECTING NEW OFFICERS

WHEREAS, the election of a President and a Vice President, and appointment of the General Manager/Secretary of the Board are required each year pursuant to the “Joint Exercise of Powers Agreement by and between the Oakdale Irrigation District and the South San Joaquin Irrigation District forming the Tri-Dam Power Authority” dated October 14, 1982,

NOW, THEREFORE, BE IT RESOLVED, that the following Tri-Dam Power Authority officers have been duly elected and appointed, are now acting and are qualified to sign written instructions, consents, stock certificates or other securities, etc., on behalf of the Authority, that the specimen signatures appearing opposite the names and titles are genuine signatures of such officers and that said resolution electing and appointing these officers is now in full force and effect, and that this appointment of officers shall remain in effect until such annual election and appointment supersedes said action.

President _____ Signature_____

Vice President _____ Signature_____

General Manager
and Secretary: Summer Nicotero Signature_____

PASSED AND ADOPTED by the Board of Directors of the TRI-DAM POWER AUTHORITY this 19th day of December, 2024 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

TRI-DAM POWER AUTHORITY

Ed Tobias, President

Summer Nicotero, Secretary