

**Balancing Authority of Northern California**

# Regular Meeting of the Commissioners of BANC

**2:00 P.M.**

**Wednesday, July 24, 2024  
555 Capitol Mall, Suite 570  
Sacramento, CA 95814**

# Balancing Authority of Northern California

## NOTICE OF REGULAR MEETING AND AGENDA

Notice is hereby given that a regular meeting of the Commissioners of the Balancing Authority of Northern California (BANC) will be held on **July 24, 2024 at 2:00 p.m. at 555 Capitol Mall, Suite 570, Sacramento, CA 95814.**

The following information is being provided as the forum by which members of the public may observe the meeting and offer public comment:

**Phone:** 1-301-715-8592 or 1-305-224-1968

**Meeting ID:** 879 0905 6720

**Passcode:** 350239

**Meeting Link:** <https://us06web.zoom.us/j/87909056720?pwd=dLVVVXEJSTbaaVc6aSSwQFiYcNNXWC.1>

### AGENDA

- 1 Call to Order and Verification of Quorum.**
- 2 Matters subsequent to posting the Agenda.**
- 3 Public Comment** – any member of the public may address the Commissioners concerning any matter on the agenda.
- 4 Consent Agenda.**
  - A. Minutes of the Regular Commission Meeting held on May 22, 2024.
  - B. BANC Operator Reports (May and June).
  - C. Compliance Officer Reports (June and July).
  - D. PC Committee Chair Reports (June and July).
  - E. General Manager's Report and Strategic Initiatives Update.
- 5 Regular Agenda Items – Discussion and Possible Action.**
  - A. General Manager Updates.
    - i. Market Updates – EIM, EDAM, Markets+, WRAP.
    - ii. BANC Resource Development Update.
  - B. Consider and Possibly Approve Resolution 24-07-01 *Approval of Amendments to 2024 Annual Budget for BANC.*
  - C. Administrative Items.
    - i. Preparation for 2025 Budget.
    - ii. Discussion and Preparation for 2024 BANC Strategic Planning Session.
  - D. Member Updates.
- 6 Adjournment.**

Accessible Public Meetings - Upon request, BANC will provide written agenda materials in appropriate alternative formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individuals with disabilities to participate in public meetings. Please send a written request, including your name, mailing address, phone number and brief description of the requested materials and preferred alternative format or auxiliary aid or service at least 3 days before the meeting. Requests should be sent to: Kris Kirkegaard, 555 Capitol Mall, Suite 570, Sacramento, CA 95814 or to [administrator@braunlegal.com](mailto:administrator@braunlegal.com).

## **Balancing Authority of Northern California**

# **Consent Agenda Items**

- A. Minutes of the May 22, 2024 BANC Regular Meeting.**
- B. BANC Operator Reports (May and June).**
- C. Compliance Officer Reports (June and July).**
- D. PC Committee Chair Reports ( June and July).**
- E. General Manager's Report and Strategic Initiatives Update.**

MINUTES OF THE REGULAR MEETING  
OF THE COMMISSIONERS OF  
THE BALANCING AUTHORITY OF NORTHERN CALIFORNIA (BANC)

May 22, 2024

On this date, a Regular Meeting of the Commissioners of the Balancing Authority of Northern California was held at 35 Iron Point Circle, Suite 225, Folsom, CA 95630.

Representatives:

<b>Member Agency</b>	<b>Commissioner</b>
Modesto Irrigation District (MID)	Martin Caballero
City of Redding	Joe Bowers, Alternate
City of Roseville	Dan Beans, Acting Chair
Sacramento Municipal Utility District (SMUD)	Laura Lewis, Alternate
City of Shasta Lake	Absent
Trinity Public Utilities District (TPUD)	Absent

Other Participants:

Jim Shetler	General Manager
Tony Braun	General Counsel
Brittany Iles	General Counsel
Kris Kirkegaard	General Counsel Support
Michelle Williams	WAPA (remote)
Bryan Griess	WAPA
Arun Sethi	WAPA (remote)

1. Call to Order and Verification of Quorum: Acting Chair Beans verified with General Manager Shetler that there was a quorum to proceed; attendance is noted above. He then called the meeting to order at 2:00 p.m.
2. Matters Subsequent to Posting the Agenda: None.
3. Public Comment (any matter on the agenda): None.
4. Consent Agenda: Acting Chair Beans invited comments from the Commission and a motion on the Consent Agenda; no comments.

<b>ACTION:</b> M/S (Lewis/Caballero) to <b>approve the Consent Agenda</b> . Motion carried by a unanimous roll call vote (Absent: Commissioners Takehara & Hauser).
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MINUTES OF THE REGULAR MEETING  
OF THE COMMISSIONERS OF  
THE BALANCING AUTHORITY OF NORTHERN CALIFORNIA (BANC)

5. Regular Agenda Items.

A. General Manager Updates:

i. Market Updates – EIM, EDAM, Markets+, WRAP.

Mr. Shetler briefly touched on the following topics: ongoing operations, CAISO Benefits Analysis; EIM Committee oversight; EDAM/DAME Tariff; BANC Project team; EDAM Participants; the status of the WAPA-SNR decision-making process for EDAM, on which Ms. Williams, Mr. Sethi, and Mr. Griess elaborated; and updates on the West-wide Governance Pathways Initiative, SPP Markets+ and WRAP. Questions from the Commission on governance were addressed by Mr. Shetler and Mr. Braun.

B. Consider and Possibly Approve Resolution 24-05-01 Acknowledgement and Acceptance of the 2024 Summer Load & Resources Assessment of the Balancing Authority of Northern California.

Mr. Shetler introduced Mr. Chris Hofmann, BANC Operator, who presented on the topic. The Commission's questions were addressed.

**ACTION:** M/S (Bowers/Caballero) to **approve Resolution 24-05-01 Acknowledgement and Acceptance of the 2024 Summer Load & Resources Assessment of the Balancing Authority of Northern California.** Motion carried by a unanimous roll call vote (Absent: Commissioners Takehara & Hauser).

C. Budget Items.

i. Update on 2023 Budget Performance.

Mr. Shetler overviewed the 2023 budget performance.

ii. Discuss Planning for BANC 2025 Budget.

Mr. Shetler overviewed the process for 2025 budget development and provided a high-level indication of where he anticipates changes.

D. Discuss Planning for 2025 Strategic Planning Session.

Mr. Shetler noted that August 28<sup>th</sup> was the expected date for this year's meeting. The location has not yet been finalized. Focus areas are currently expected to include: EDAM implementation, resource projects, and regional developments. CEC Commissioner Siva Gunda has been invited as a guest speaker.

E. Member updates.

Alternate Commissioner Bowers provided an equipment update related to one of their Siemens units. Commissioner Caballero commented on MID's approval of EDAM at their most recent board meeting. Alternate Commissioner Lewis, Mr. Shetler, and Mr. Braun provided a brief update on the anticipated Calpine Sutter Project. Commissioner Beans provided an update on recent rate increases including NEM-applicable charges.

The Commission adjourned at 3:15 p.m.

Minutes approved on July 24, 2024.

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C. Anthony Braun, Secretary



# BALANCING AUTHORITY OF NORTHERN CALIFORNIA

P.O. BOX 15830 • D109 • SACRAMENTO • CA 95852 -1830

**TO:** BANC Commission

**RE:** BANC Operator Report for May 2024

## Operations:

- BA Operations: Normal
- Significant BA Issues: None
- Declared BA Energy Emergency Alert Level (EEA): N/A
- RSG Activations
  - 2 Qualifying Events
  - 0 MW Qualifying Event request
  - 253 MW average generation lost
  - 326 MW maximum generation lost
  - Generating unit(s) and date(s) affected:  
*5/11/24 – Cosumnes Power Plant*  
*5/31/24 – Sutter Energy Center*
  - All recoveries within 6 minutes
- USF
  - 1 of 31 days with instances of USF mitigation procedure utilized
  - 0 days on Path 66
  - No operational impact on BANC
- BAAL Operation:
  - Maximum duration of BAAL exceedance: 11 Minutes
  - Number of BAAL exceedance >10 minutes: One  
*5/17/24 – BAAL low due to slow generation response to EIM ramp*
  - BAAL violation (BAAL exceedance >30 minutes): None
- Frequency Response (FR) Performance – Quarterly Metric:
  - 2024 Frequency Response Obligation (FRO): -15.8 MW/0.1Hz
  - Q1 Frequency Response Measure (FRM): -50.1 MW/0.1Hz
  - Q1 Number of Under-Performed Events: 0 out of 4

## Monthly Notes:

- None

A JOINT POWERS AUTHORITY AMONG

Modesto Irrigation District, City of Redding, City of Roseville, Trinity Public Utilities District,  
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City of Shasta Lake, and Sacramento Municipal Utility District



# BALANCING AUTHORITY OF NORTHERN CALIFORNIA

P.O. BOX 15830 • D109 • SACRAMENTO • CA 95852 -1830

**TO:** BANC Commission

**RE:** BANC Operator Report for June 2024

## Operations:

- BA Operations: Normal
- Significant BA Issues: None
- Declared BA Energy Emergency Alert Level (EEA): N/A
- RSG Activations
  - 0 Qualifying Events
  - 0 MW Qualifying Event request
  - 0 MW average generation lost
  - 0 MW maximum generation lost
  - Generating unit(s) and date(s) affected: None
  - All recoveries within 0 minutes
- USF
  - 5 of 30 days with instances of USF mitigation procedure utilized
  - 0 days on Path 66
  - No operational impact on BANC
- BAAL Operation:
  - Maximum duration of BAAL exceedance: 6 Minutes
  - Number of BAAL exceedance >10 minutes: None
  - BAAL violation (BAAL exceedance >30 minutes): None
- Frequency Response (FR) Performance – Quarterly Metric:
  - 2024 Frequency Response Obligation (FRO): -15.8 MW/0.1Hz

## Monthly Notes:

- None

A JOINT POWERS AUTHORITY AMONG

Modesto Irrigation District, City of Redding, City of Roseville, Trinity Public Utilities District,  
City of Shasta Lake, and Sacramento Municipal Utility District

# Compliance Officer Report

## BANC Commission Meeting

### June 2024

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The following summarizes routine issues for the Commission's information and consideration. Any major issues or action items will be identified on a future Commission agenda for action.

#### **BA Compliance Issues:**

- No significant operational Balancing Authority compliance events occurred.
- All required BA compliance reports and operating data were submitted to WECC.
- A mock audit of select standards applicable to the BA/PC functions was conducted by Archer Energy Group from May 28<sup>th</sup> – June 7<sup>th</sup>. The objective of this mock audit was to ensure that BANC/SMUD are well-prepared for the 2025 WECC Audit (expected to take place May 12-23, 2025).

Preliminary results were shared in the closing presentation, but a final report is expected by the end of June. Overall, BANC & SMUD performed well, with Archer noting that the BANC/SMUD team was engaged, collaborative and friendly, and Subject Matter Experts were helpful, patient and knowledgeable. Where potential issues are identified, a plan will be formulated for addressing them prior to the WECC audit.

#### **BANC MCRC:**

The next BANC MCRC meeting is scheduled to be held at 10:00 AM on Monday, June 24<sup>th</sup> via teleconference.



# Compliance Officer Report

## BANC Commission Meeting

### July 2024

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The following summarizes routine issues for the Commission's information and consideration. Any major issues or action items will be identified on the Commission agenda for action.

#### **BA Compliance Issues:**

- No significant operational Balancing Authority compliance events occurred.
- All required BA compliance reports and operating data were submitted to WECC.
- A mock audit of select standards applicable to the BA/PC functions was conducted by Archer Energy Group from May 28<sup>th</sup> – June 7<sup>th</sup>. The objective of this mock audit was to ensure that BANC/SMUD are well-prepared for the 2025 WECC Audit (expected to take place May 12-23, 2025).

Final reports have been received. Results will be shared with the MCRC at their next meeting. Where potential issues have been identified, plans are being formulated to address them prior to the WECC audit.

#### **BANC MCRC:**

The next BANC MCRC meeting is scheduled to be held at 10:00 AM on Monday, July 22<sup>nd</sup> via teleconference.

# PC Committee Chair Report

## BANC Commission Meeting

### June 2024

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The following summarizes Planning Coordinator-related activities and updates for the Commission's information and consideration. Any major issues or action items will be identified separately on a future Commission agenda for action.

#### **BANC PC Committee Updates and/or activities:**

Staff continues to work toward demonstrating compliance with PC-related NERC reliability standards.

- BANC PC completed the 2024 Mock Audit with six PC and TP related NERC reliability standards: FAC-014-2, IRO-017-1, PRC-006-5, PRC-010-2, TPL-001-5.1 and TPL-007-4. A total of 19 Requests for Information (RFIs) were issued by auditors and responded to by staff with data, narratives and evidence documents, and four in-person interviews were conducted. Staff is implementing recommendations from the initial mock findings and will also incorporate recommendations from the final Archer report.
- TPL-001-5.1: Initial mock audit findings were generally positive, with TPL-001 being commended for performing the large number of stability contingencies, going above and beyond most entities (referred to as "best in class" by audit team). Areas of improvement are most notably the Known Outage procedure and analysis as well as continual improvements to the report and RSAW narratives.
- PRC-006-5: Initial mock audit findings were positive, with no comments after an additional RFI. Areas of improvement are RSAW narratives, where it was recommended to add information from the RFI questions into the RSAW narratives for the future updates to RSAWs.
- FAC-014-2: Initial mock audit findings were positive, with no findings for BANC PC-related requirements based on the RFIs and interview. Staff requested mock auditor to review BANC's FAC-014-3 R6 process document and provide comments to help improve the document and BANC's process. It was recommended that BANC PC keep producing annual FAC-014-3 report to document adherence to SOLs in Transmission Planning assessments for the Near-Term Transmission Planning Horizon. Other noted areas of improvement are RSAW narratives, where it was recommended to add information from the RFI questions into the RSAW narratives for the future updates to RSAWs.
- TPL-007-4 –The initial audit findings identified a requirement for voltage collapse and reactive power loss studies for the required GMD study at the BANC PC area, which WECC did not perform in the year 2022 GMD study. In order to implement the mock audit recommendation and perform the TPL-007-4 required study, BANC needs

to purchase a GE-PSLF's GMD license as soon as possible to prepare for the WECC audit in year 2025 so the required study could be completed by the end of this year.

The license fees are:

- 1) Option 1: Perpetual Site License
    - a) Allows for up to 5 concurrent users of the software.
    - b) The fee is \$25,000 with annual maintenance fee of \$3,340.
  - 2) Option 2: Perpetual Single License
    - a) Allows only 1 concurrent user of the software.
    - b) The fee is \$15,000 with annual maintenance fee of \$3,150.
  - 3) Option 3: Single Annual License
    - a) Allows only 1 concurrent user of the software.
    - b) The fee is \$7,000. If BANC chooses to renew in the future, the annual fee would be whatever the license fee is that year, which could increase.
- TPL-001-5 - Transmission System Planning Performance – Steady state analysis for BANC PC is currently being performed.
  - PRC-006-5 Underfrequency Load Shedding – Staff sent the WECC-requested annual UFLS data request from BANC PC participants to the Off-Nominal Frequency System Protection (OFSPR) Southern Island Load Tripping Plan (SILTP) technical writer on May 29<sup>th</sup>.
  - FAC-014-3 - CAISO updated it's FAC-014-3 methodology to version 3.1, so Staff will be updating BANC PC documented process required by R6 of the FAC-014-3 to reflect changes from the CAISO RC methodology update.
  - PRC-010-2 - Undervoltage Load Shedding – BANC received data and updated UVLS models from Roseville. Staff is performing the UVLS assessment studies and report, which is due on January 1, 2025.
  - PRC-023-6 – Staff notified BANC PC Participants and external stakeholders of Assessment Results and Null-List on May 28<sup>th</sup>. The draft report will be sent to BANC PC Participants for review by July 26<sup>th</sup>.
  - PRC-026-2 Relay Performance During Stable Power Swings - Staff is currently setting up the base case dynamics data and virtual machines for powerflow assessment to begin performing the transient stability study for the 2024 cycle. BANC PC Participants will be notified of results by July 19<sup>th</sup>.

The table below shows the current status of all PC-related NERC standards:

	<b>PC Standard</b>	<b>Estimated % Complete</b>	<b>Notes</b>
1	FAC-002-4 Interconnection Studies	100%	There are no BES interconnection projects in 2024 for BANC PC Participants per 2024 survey as there are no system upgrades meet the new definition of qualified changes for BANC PC for this year.
2	FAC-010-3 SOL Methodology for Planning Horizon	N/A	This standard is inactive as of 03/30/24.
3	FAC-014-3 Establish and Communicate SOLs	75%	The CAISO updated its FAC-014-3 methodology, so staff will be updating BANC PC documented process required by R6 of the FAC-014-3 to reflect changes from the CAISO RC methodology update.
4	IRO-017-1 Outage Coordination	0%	Awaiting the acceptance of the 2024 annual assessment to send to the Reliability Coordinator.
5	MOD-031-3 Demand and Energy Data	100%	Staff completed the 2024 Loads and Data request cycle. WECC broke up the data request into multiple spreadsheets with two sets of due dates and a narrative request with separate due date. The two sets of sheets were received and filled with WECC-requested load and energy data and sent to WECC by the due dates. WECC sent out a narrative request, and that request was sent to BANC PC Participants for input. Responses were aggregated and uploaded to WECC on 03/19/2024.
6	MOD-032-1 Data for Power System Modeling & Analysis	100%	Ongoing activity. Data requests to fulfill 13-month cycle for compliance were sent 02/09/2024.
7	MOD-033-1 System Model Validation	10%	Study will begin in Fall 2024.
8	PRC-006-5 Underfrequency Load Shedding	75%	Staff sent the WECC-requested annual UFLS data request from BANC PC Participants to the Off-Nominal Frequency System Protection (OFSPR) Southern Island Load Tripping Plan (SILTP) technical writer on 05/29/24.
9	PRC-010-2 Undervoltage Load Shedding	45%	BANC received data and updated UVLS models from Roseville. Staff is performing the UVLS assessment studies and report which is due on 01/01/2025.

	<b>PC Standard</b>	<b>Estimated % Complete</b>	<b>Notes</b>
10	PRC-012-2 Remedial Action Schemes	10%	New Standard effective on 01/01/2021. Study Plan finalized on 04/10/2020. The R4 assessment is not required until 01/01/2026, which means that the assessment and report must be finalized and published by 01/01/2026.
11	PRC-023-6 Transmission Relay Loadability	75%	Staff notified BANC PC Participants and external stakeholders of Assessment Results and Null-List on 05/28/24. The draft report will be sent to BANC PC Participants for review by 07/26/24.
12	PRC-026-2 Relay Performance During Stable Power Swings	35%	Staff is currently setting up the base case dynamics data and virtual machines for powerflow assessment to begin performing the transient stability study for the 2024 cycle. BANC PC Participants will be notified of results by 07/19/2024.
13	TPL-001-5 Transmission System Planning Performance	40%	Steady State analysis is being performed.
14	TPL-007-4 Transmission System Planned Performance for Geomagnetic Disturbance Events	0%	The audit identified a requirement for voltage collapse and reactive power loss studies for the required GMD study at the BANC PC area, which WECC did not perform in the year 2022 GMD study. In order to implement the Mock Audit recommendation and perform the TPL-007-4 required study, BANC needs to purchase a GE-PSLF GMD license as soon as possible to prepare for the WECC audit in year 2025 so the required study can be completed by the end of this year.

# PC Committee Chair Report

## BANC Commission Meeting

### July 2024

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The following summarizes Planning Coordinator-related activities and updates for the Commission's information and consideration. Any major issues or action items will be identified separately on the Commission agenda for action.

#### **BANC PC Committee Updates and/or activities:**

Staff continues to work toward demonstrating compliance with PC-related NERC reliability standards.

- BANC PC received Archer's 2024 Mock Audit final report and is currently reviewing the report and recommendations. The report for BANC PC comprises six PC and TP-related NERC reliability standards: FAC-014-2, IRO-017-1, PRC-006-5, PRC-010-2, TPL-001-5.1 and TPL-007-4. Action items to implement recommendations from this report are being developed.
- TPL-001-5.1 Transmission System Planning Performance: Steady State results are nearing completion with stability analysis being performed. Mock Audit findings and recommendations are being incorporated into the 2024 study and report.
- PRC-006-5 Underfrequency Load Shedding: The final Archer Mock audit report was received, and staff is currently reviewing the report findings and recommendations. Auditor comments were positive, with no findings after additional RFIs. Areas of improvement are RSAW narratives, where it was recommended to add information from RFI questions and responses into the narratives during future updates.

Staff sent the WECC-requested annual UFLS data request from BANC PC Participants to the Off-Nominal Frequency System Protection (OFSPR) Southern Island Load Tripping Plan (SILTP) technical writer on May 29<sup>th</sup>. The SILTP technical writer finalized the shared data and sent the completed report to WECC on July 1<sup>st</sup>.

- FAC-014-2 Establish and Communicate SOLs: The final Archer Mock audit report was received, and BANC staff is reviewing report findings and recommendations. The findings were positive for planning-related requirements, with no findings for BANC PC-related requirements based on the RFIs and interview. Staff is reviewing mock auditor comments and recommendations for BANC's FAC-014-3 R6 process document. It was recommended that the BANC PC continue producing the annual FAC-014-3 report to document adherence to SOLs in Transmission Planning assessments for the Near-Term Transmission Planning Horizon. Other noted areas for improvement are RSAW narratives, where it was recommended to add information from RFI questions and responses into the narratives during future updates.

- FAC-014-3 Establish and Communicate SOLs: The CAISO updated its FAC-014-3 methodology to version 3.1, so staff will be updating the BANC PC-documented process required by R6 to reflect changes related to the CAISO RC methodology update.
- TPL-007-4 Transmission System Planned Performance for Geomagnetic Disturbance Events: Staff is currently reviewing the report findings and recommendations from the final Archer mock audit report. The report recommends a need for voltage collapse and reactive power loss studies for the required GMD study in the BANC PC area, which WECC did not perform in the year 2022 study. In order to implement the mock audit recommendation and perform the TPL-007-4-required study, BANC proceeded with purchasing a single annual GE-PSLF's GMD license to prepare for the WECC audit in year 2025. Staff is committed to completing these required voltage collapse and reactive power loss studies by the end of 2024.
- PRC-010-2 - Undervoltage Load Shedding – Mock auditor comments were positive with no findings. Staff is currently developing action items based on the mock audit report and recommendations. Staff is performing the UVLS assessment studies and report, which is due on January 1, 2025.
- PRC-023-6 Transmission Relay Loadability: Staff notified BANC PC Participants and external stakeholders of Assessment Results and Null-List on May 28<sup>th</sup>. The draft report will be sent to BANC PC Participants for review by July 26<sup>th</sup>.
- PRC-026-2 Relay Performance During Stable Power Swings - Staff is currently setting up the base case dynamics data and virtual machines for powerflow assessment to begin performing the transient stability study for the 2024 cycle. BANC PC Participants will be notified of results by July 19<sup>th</sup>.

The table below shows the current status of all PC-related NERC standards:

	<b>PC Standard</b>	<b>Estimated % Complete</b>	<b>Notes</b>
1	FAC-002-4 Interconnection Studies	100%	There are no BES interconnection projects in 2024 for BANC PC Participants per 2024 survey as there are no system upgrades meet the new definition of qualified changes for BANC PC for this year.
2	FAC-010-3 SOL Methodology for Planning Horizon	N/A	This standard is inactive as of 03/30/24.
3	FAC-014-3 Establish and Communicate SOLs	75%	The CAISO updated its FAC-014-3 methodology, so staff will be updating BANC PC documented process required by R6 of the FAC-014-3 to reflect changes from the CAISO RC methodology update. An annual report will be developed based on the mock auditor's recommendation.
4	IRO-017-1 Outage Coordination	0%	Awaiting the acceptance of the 2024 annual assessment to send to the Reliability Coordinator.
5	MOD-031-3 Demand and Energy Data	100%	Staff completed the 2024 Loads and Data request cycle. WECC broke up the data request into multiple spreadsheets with two sets of due dates and a narrative request with separate due date. The two sets of sheets were received and filled with WECC-requested load and energy data and sent to WECC by the due dates. WECC sent out a narrative request, and that request has been sent to BANC PC Participants for input, and responses were aggregated and uploaded to WECC on 03/19/2024.
6	MOD-032-1 Data for Power System Modeling & Analysis	100%	Ongoing activity. Data requests to fulfill 13-month cycle for compliance were sent 02/09/2024.
7	MOD-033-1 System Model Validation	10%	Study will begin in Fall 2024.
8	PRC-006-5 Underfrequency Load Shedding	100%	Staff sent the WECC-requested annual UFLS data request from BANC PC Participants to the Off-Nominal Frequency System Protection (OFSPR) Southern Island Load Tripping Plan (SILTP) technical writer on 05/29/24.
9	PRC-010-2 Undervoltage Load Shedding	80%	BANC received data and updated UVLS models from Roseville. Staff is performing the UVLS assessment studies and report which is due on 01/01/2025.



	PC Standard	Estimated % Complete	Notes
10	PRC-012-2 Remedial Action Schemes	10%	New Standard effective on 01/01/2021. Study Plan finalized on 04/10/2020. The R4 assessment is not required until 01/01/2026, which means that the assessment and report must be finalized and published by 01/01/2026.
11	PRC-023-6 Transmission Relay Loadability	75%	Staff notified BANC PC Participants and external stakeholders of Assessment Results and Null-List on 05/28/24. The draft report will be sent to BANC PC Participants for review by 07/26/24.
12	PRC-026-2 Relay Performance During Stable Power Swings	60%	Staff is currently setting up the base case dynamics data and virtual machines for powerflow assessment to begin performing the transient stability study for the 2024 cycle. BANC PC Participants will be notified of results by 07/19/2024.
13	TPL-001-5 Transmission System Planning Performance	55%	Steady State analysis is being performed and is nearing completion. Dynamic analysis is underway.
14	TPL-007-4 Transmission System Planned Performance for Geomagnetic Disturbance Events	10%	SMUD received the final Archer Mock audit report and staff is reviewing the report findings and recommendations. The report recommends a need for voltage collapse and reactive power loss studies for the required GMD study at the BANC PC area, which WECC did not perform in the year 2022 GMD study. In order to implement the Mock Audit recommendation and perform the TPL-007-4 required study, BANC proceeded with purchasing a single annual GE-PSLF GMD license to prepare for the WECC audit in year 2025. Staff is committed to completing the required voltage collapse and reactive power loss studies by the end of 2024.

# GM Report

## BANC Commission Meeting

### July 24, 2024

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I wanted to summarize routine issues for the Commission's information and consideration. Any major issues or action items will be identified separately on the Commission agenda for action.

#### **Outreach Efforts:**

Refer to GM outreach report provided under separate distribution. In addition, here are some other noteworthy items:

#### **LADWP/Seattle City Light/SRP**

Dialogue continues with these entities regarding EIM participation. We continue to interact on an informal basis to make sure we are aligned on EIM issues from a POU perspective. We are routinely holding bi-weekly calls to provide updates and discuss issues. We have also used this forum to discuss POU positions regarding the EDAM development, other market design issues (e.g.- SPP Markets+), and to discuss potential summer heat wave impacts on EIM and EDAM design.

#### **Market Initiatives:**

##### **EIM Participation**

Staff continues monitoring EIM participation. CAISO quarterly benefit reports show that BANC is seeing benefits from EIM participation, with the 1<sup>st</sup> Quarter 2024 report showing gross benefits of \$20.78 million for BANC, with a total of \$635.90 millions of gross benefits for BANC since joining in 2019.

With respect to BANC EIM Phase 2 effort, BANC has been passing both the EIM Capacity and Flex Ramp tests with a high success rate. Both the Technical Evaluation Subcommittee and the Settlements Subcommittee are meeting routinely and evaluating EIM operations, with reports out to the EIM Committee. The EIM Committee did approve a 6-month pilot program for adjustments to EIM participation regarding capacity offsets for balancing test compliance.

##### **EDAM Participation**

FERC approved the EDAM/DAME tariff on 12/21/23 with the exception of the Access Charge. In its order, the Commission accepted the overwhelming majority of the proposed market rules and rejected without prejudice one element of the EDAM

proposal related to transmission revenue recovery (TRR) for market participants. The CAISO filed a revised proposal with FERC on April 12, 2024, which was approved by FERC on June 12, 2024. This resolves the concerns by the potential EDAM participants and should allow several to move forward.

A group of Western state regulators (AZ, CA, NM, OR, and WA) have sent a letter to CREPC/WIRAB supporting the creation of an independent entity that would leverage the existing CAISO infrastructure for EIM and eventually EDAM to develop a cost-effective West-wide market. This would include a range of market services from EIM to EDAM to an RTO. It also deals with the CAISO governance issue by creating a separate independent entity. BANC views this as a positive development in ensuring a West-wide market that will include CA and supports the effort. The Western Markets Governance Pathways Initiative has formed “Launch Committee” made up of stakeholders from twelve sectors to organize this effort. One of the sectors is for POU. The BANC General Manager is serving as a representative for the POU Sector. The Launch Committee held a stakeholder meeting on 12/15/23 where it outlined an initial set of governance options for consideration and evaluation and follow-up stakeholder meetings on 1/19/24, 2/16/24, 3/15/24, 4/19/24, and 5/31/24. The Launch Committee issued a draft proposal on April 10, 2024, outlining a stepwise approach to independent oversight over CAISO markets. BANC joined in with a group of 32 other entities in support of the Launch Committees Step 1 proposal to move to primary authority for the WEIM Governing Body over market rules and supporting the Launch Committee further fleshing out the draft Step 2 proposal to move to the formation of a Regional Organization with an independent board that would have sole authority over market rules within the current CAISO tariff structure. The Launch Committee approved the Step 1 proposal on 5/31/24 and has sent this to the CAISO for consideration and possible implementation. The CAISO has initiated its stakeholder process to consider the proposal. The Launch Committee is now working on providing more details for Step 2, with a goal of finalizing this proposal by late fall 2024.

Based upon the Commission’s unanimous approval at its 8/23/23 meeting, BANC staff have initiated the project efforts for EDAM Implementation, which includes starting dialogue with the CAISO project management group for EDAM and establishing the internal BANC project team. Initial kick-off of the BANC EDAM project team was held on 12/13/23. BANC met with PacifiCorp on January 11, 2024, and February 26, 2024, to start discussing joint EDAM implementation issues and has initiated project discussions with the CAISO. We had follow-up meetings in early June with PacifiCorp and other interested EDAM parties regarding lessons-learned on EDAM project efforts. BANC provided an EDAM Implementation update to the EIM Regional Issues Forum (RIF) at its 6/20/24 meeting.

### **Other Market Developments**

In parallel with the EDAM process, SPP has announced its “Markets+” effort to support utilities in the West with a range of market options from EIM to full RTO services. SPP filed its Markets+ tariff at FERC on March 29, 2024, with approval

expected by the end of the year. They deferred seeking additional funding for the next phase of market development and commitments to Markets+ until later this year. They have also indicated that “go-live” for Markets+ will be delayed until 2027. Staff views Markets+ as a fallback option for BANC and will continue to monitor this market option but does not plan on seeking funding for participation in this next phase of their efforts.

## **WAPA:**

### **Market Engagement**

WAPA-SNR continues to be an active participant in the EIM.

We have also held several discussions with WAPA-SNR to assist in their decision-making on EDAM participation. This has included more detailed discussions with the Brattle Group on the benefits study, joint discussions with the CAISO, and making the Utilicast consultant available for assistance. WAPA-SNR requested that the BANC contract with Utilicast be used as the mechanism for their EDAM “gap” analysis. The Commission approved this request at its 9/27/23 meeting. Utilicast provided a draft “gap” analysis report in January 2024 and a final report in February 2024. Staff is working with CAISO to assist with resolving WAPA-SNR concerns with EDAM participation. Based upon the last meeting with CAISO on April 5, 2024, and discussions with WAP-SNR, it is believed that the CAISO has resolved the concerns WAPA-SNR had with EDAM. WAPA-SNR has announced its customer meetings for the EDAM decision-making will run through this summer with an Administrator decision to follow. WAPA-SNR also provided an update at the May Commission meeting noting that the earliest they could support go live for EDAM would be Spring 2027. WAPA-SNR has initiated a series of customer meetings to evaluate EDAM participation. Staff is working with WAPA-SNR to determine what the EDAM Implementation schedule and budget will be. Our goal is to come back to the Commission at the August meeting with a project plan update. In the meantime, we are continuing our EDAM engagement at the low-level Advisory Effort.

## **WECC:**

### **WECC Board Meetings**

The last set of Board and committee meetings were held on June 11-12, 2024, in Salt Lake City, UT. The next set of meetings will be September 17-18, 2024, in Salt Lake City, UT, which will also be the WECC Annual Meeting.

## **Western Power Pool (WPP):**

### **Western Resource Adequacy Program (WRAP)**

As agreed previously, BANC has informed WPP that it will not be participating in the Western Resource Adequacy Program (WRAP) due to our lack of ability to have firm, long-term transfer capability at Mid-C, which is the hub for the WRAP interchanges. BANC continues to monitor development of the WRAP and hold periodic discussions with WPP regarding our ability to participate in the future. WPP announced in late April that their WRAP participants have formally requested a delay in the “binding” date from 2026 to 2027. It is anticipated that there will be some changes to the WRAP rules that will be implemented, but the details have not been released yet.

### **RSG and FRSR Participation**

BANC continues to participate in the Reserve Sharing Group and the Frequency Response Sharing Group through the WPP and receive benefits in doing so.

### **WPP Strategic Planning Effort**

WPP initiated a strategic planning effort in the fall of 2023 to determine member interest in the future direction of the power pool. WPP staff stated that they view one of their roles as providing services to its members that are not currently available since there is no West-wide RTO in place. WPP has initiated a new process called the Western Transmission Expansion Coalition (WestTEC) which is intended to provide coordination among the current regional transmission planning entities in the West (CAISO, Northern Tier, and WestConnect) to determine if there are some broader regional transmission projects that should be considered. WPP has obtained some DOE funding for this effort which will get launched later this year.

## **CDWR Delta Pumping Load:**

BANC is coordinating with SMUD, CDWR, WAPA, and the CAISO regarding how the construction and pumping loads and ancillary services will be provided for this project. The CAISO has reached out to BANC/SMUD/WAPA-SNR regarding contacts for initiating discussions on how CAISO will supply energy for the construction loads in our footprints. SMUD reported that CDWR has approached them regarding the revised environmental review and updated project schedule and SMUD is initiating updated studies. The current schedule for the project is to initiate construction in 2033 with operations initiated in 2040's.

## **SB100 Implementation:**

As part of SB100, the CPUC, CEC, and CARB (Joint Agencies) are required to collaborate with the California BAs to develop a quadrennial report on the status of achieving the goals of SB100. The four POU BAs (BANC, IID, LADWP, and TID) are collaborating on positions and responses, facilitated by CMUA. The final, initial

report was issued on 3/15/21. The CEC did reach out to the POU BAAs in early March 2021 seeking more engagement with the BAAs for the next round of analysis for the SB100 effort. Based upon recent discussions, the POU BAAs have hired a consultant via CMUA to assist in this effort. The Joint Agencies have initiated the next cycle of the SB100 effort to support issuing an update report by the required date of 1/1/25. BANC is working with IID, LADWP, and TID to coordinate our engagement in this effort.

### **Western Electricity Industry Leaders (WEIL) Group:**

The WEIL CEOs last met on May 31, 2024, in Salt Lake City, UT. The next meeting of the WEIL group is planned for October 11, 2024, in Portland, OR.

### **Strategic Initiatives:**

The 2023/2024 Strategic Initiatives are attached to this report.

BANC 2023/2024 Strategic Plan - Routine Initiatives - July 2024 Update

No./Priority	Focus Area	Initiative	Responsibility	Target Due Date	Status
1 Medium	INDEPENDENCE	Effectively oversee the BA operations.	Jim Shetler	Ongoing	See monthly Ops, PC, Compliance, & GM Reports
2 Medium		Maintain long-term succession plan and traits for General Manager	Jim Shetler/Commission	Ongoing as Necessary	No update planned for 2024
3 Medium		Develop appropriate policies, procedures, & action tracking	Jim Shetler/BB&W	4th Qtr. 2024	Initial policies & procedures approved at 11/15/23 mtg.
4 Medium	OUTREACH	Engage in industry forums (WECC, RC West, NWPPA, etc.)	Jim Shetler	Ongoing	Attend RC West, WECC Board, WEIL, & WPP mtgs.
5 Medium		Coordinate with other POU BAs (Ca and regionally)	Jim Shetler	Ongoing	Coordinating with SCL/SRP/LA/TP/TID on EIM/EDAM & SB100
6 Medium		Outreach to regulatory and legislative bodies on key issues	Jim Shetler/BB&W/WEL	Ongoing as Necessary	Pathways Step 1 in CAISO; Step 2 in development
7 Medium		More formal engagement with TID on BA/EIM/EDAM issues	Jim Shetler/BB&W/WEL	Ongoing	Continue periodic discussions on areas of collaboration
8 Medium	ASSETS	Monitor RA development in WI	Jim S./BB&W/Res. Com.	4th Qtr. 2024	WRAP binding period to be delayed until at least 2027. Program revisions planned.
9 Low	MEMBER SERVICES	Identify and outreach to potential new BANC members	Jim Shetler	Ongoing as Appropriate	

BANC 2023/2024 Strategic Plan - Focused Initiatives - July 2024 Update

No./Priority	Focus Area	Initiative	Responsibility	Target Due Date	Status
10 High	INDEPENDENCE	Manage EIM Phase 2 Going Forward	Jim Shetler/SMUD	Ongoing	Manage Phase 2 operations including EIM, Tech Anal. & Settlements committees
11 High		EDAM evaluation effort ~ Engage Stakeholder Processes ~ Participate in CAISO Tariff Process ~ Manage BANC EDAM implementation	Jim Shetler/BB&W/WEL Jim Shetler/BB&W/WEL Jim Shetler/BB&W/WEL/ Utilicast	Ongoing 1st Qtr. 2024  Apr-26	Approved 12/21/23. Access Charge rev. approved 6/12 Project kick-off 12/13/23 Coord. with WAPA on go live
12 Medium	OUTREACH	Evaluate opportunities to engage other entities in market development	Jim Shetler	Ongoing	Coordinating with SCL, SRP, LADWP, TID, Tacoma, Idaho, PAC, & PGE
13 Medium		Regional Policy Issues: Monitor/ weigh-in where appropriate	Jim Shetler/Commission	Ongoing	Spoke at EIM RIF mtg. 6/20
14 High		Market Regionalization: ~Monitor ongoing discussions at WEIL, WWGPI, & etc.	Jim Shetler/BB&W/WEL	Ongoing	Pathways Initiative LC
15 High		Coordinate with CA BAs on SB100 effort	Jim Shetler/BB&W	Ongoing	
16 Medium	ASSETS	~ Develop agreements for Sutter CS Project ~ Develop agreements for GSCE project participation	Jim S./BB&W/Res. Com. Jim S./BB&W/Res. Com.	6/30/24 6/30/24	Initiating agreement development Draft Term Sheet from GSCE
17 Medium	MEMBER SERVICES	Evaluate possible support to participants for EIM operations	Jim S.	Ongoing	



## Balancing Authority of Northern California

### Agenda Item 5B

1. **Resolution 24-07-01 *Approval of Amendments to 2024 Annual Budget for BANC.***
2. **Attachment A to Resolution 24-07-01: *2024 BANC Budget Amendments – July 2024.***



# BALANCING AUTHORITY OF NORTHERN CALIFORNIA

P.O. Box 15830 • D109 • SACRAMENTO • CA 95852 -1830

07/24/24

**To: BANC Commission**

**From: BANC General Manager**

**RE: 2024 BANC Budget Amendment – July 2024**

Staff is requesting consideration and possible approval of two amendments to the 2024 BANC Budget as follows:

**PA-1: PC Services:** BANC/SMUD recently completed a mock audit in preparation for the triennial WECC Audit in 2025. This included a review of compliance with NERC standard TPL-007-4 - Transmission System Planned Performance for Geomagnetic Disturbance Events. In the past, BANC used the WECC Geomagnetic Disturbance (GMD) study to comply with this standard. However, WECC no longer performs this study. It was believed that BANC would not have to perform this study until 2026, and thus BANC did not anticipate associated software costs this year. However, the final mock audit report recommends a need for voltage collapse and reactive power loss studies for the required GMD study in the BANC PC area, which WECC did not perform in its 2022 study. The mock audit identified the lack of these elements as a matter of concern and “red flagged” it as a high-risk area. Therefore, it is recommended that BANC perform such a BANC PC area-wide study in advance of the 2025 WECC audit. As a result, SMUD, as part of its PC Services for BANC, is requesting to purchase the Positive Sequence Load Flow (PSLF) GMD add-on program license. SMUD obtained quotes from GE on the cost for the required license, and depending on whether an annual or perpetual single license is obtained, the fee could range from \$7,000-15,000. This was not budgeted in the 2024 Budget. Staff is therefore requesting an increase in the 2024 budget for PA-1 of \$15,000, for a new total budget amount of \$334,175, to cover this procurement.

**PA-4: Market Alternatives Evaluation:** Redding Electric has requested to utilize BANC’s existing contract with The Brattle Group to perform an evaluation of the value of its transmission assets as we evolve from EIM to EDAM. The Brattle Group has provided a letter amendment to the existing contract to perform this evaluation with a time and materials estimate of \$35,000. This work was not included in the 2024 budget for PA-4. Staff are requesting an increase in the PA-4 budget of \$40,000, for a new total amount of \$270,123, to cover this additional work. The additional amount will be billed solely to Redding Electric.

The details of these proposed amendments are included in Attachment A to Resolution 24-07-01.

A JOINT POWERS AUTHORITY AMONG

Modesto Irrigation District, City of Redding, City of Roseville, Trinity Public Utilities District,

City of Shasta Lake, and Sacramento Municipal Utility District

**Balancing Authority of Northern California  
Resolution 24-07-01**

**APPROVAL OF AMENDMENTS TO 2024 ANNUAL BUDGET FOR BANC**

WHEREAS, the Balancing Authority of Northern California ("BANC") Joint Powers Agreement ("JPA") Section 11.4 describes both the responsibilities and the non-delegable duties of the BANC Commission which include approving an annual budget and approving assessments to each Member; and

WHEREAS, JPA Section 12 provides that the BANC Commission may assess each Member for its respective Participation Percentage share of funds required to carry out BANC's purposes as specified in the annual budget; and

WHEREAS, BANC Resolution 12-02-03 established a process whereby Member assessments shall be required no less than two times per year; and

WHEREAS, a change in the budget for PA-1: PC Services is necessitated by a recommendation from a recent mock audit of BANC, in preparation for the 2025 WECC audit, that an additional software license be procured to enable additional studies to be performed in support of TPL-007-4 – Transmission System Planned Performance for Geomagnetic Disturbance Events; and

WHEREAS, the budget for PA-4: Market Evaluation has been updated to allow Redding Electric to utilize BANC's existing contract with The Brattle Group to perform an evaluation of the value of its transmission assets in support of the transition from EIM to EDAM; and

WHEREAS, the 2024 budget has been amended to include these changes, including an update to the 2024 BANC Member Assessments resulting from these changes; and

WHEREAS, the General Manager has prepared Attachment A, 2024 BANC Budget Amendments – July 2024, which incorporates these revisions for consideration and possible adoption by the Commission.

NOW, THEREFORE, BE IT RESOLVED that the Commissioners of the Balancing Authority of Northern California hereby:

1. Approve the 2024 BANC Budget Amendments in the form attached hereto as Attachment A.
2. Direct the General Manager to prepare an Amended 2024 Annual Budget for BANC to incorporate these Amendments.
3. Direct the BANC Treasurer to assess each BANC Member in accordance with Resolution 12-02-03.

PASSED AND ADOPTED by the Commissioners of the Balancing Authority of Northern California this 24<sup>th</sup> day of July, 2024, by the following vote:

		Aye	No	Abstain	Absent
Modesto ID	Martin Caballero				
City of Redding	Nick Zettel				
City of Roseville	Dan Beans				
City of Shasta Lake	James Takehara				
SMUD	Paul Lau				
TPUD	Paul Hauser				

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Paul Hauser  
Chair

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Attest by: C. Anthony Braun  
Secretary

## 2024 BANC Budget Amendments – July 2024

### 2. Participation Agreement #1 (PA-1) – PC Services – [Revision 1](#)

#### a. Assumptions:

- i. SMUD to provide contract PC services to BANC
- ii. Total Base Cost to BANC = \$~~34,175~~[19,175](#)
  1. Main PC evaluation labor = \$279,978
  2. \$39,197 for labor to perform an overview assessment of full BANC footprint
  3. Includes a 3.0% labor rate adjustment for 2024
  4. [Procurement of GE software PSLF GMD add-on license = \\$15,000](#)
- iii. WAPA-SNR does not participate, TPUD and Shasta Lake embedded within WAPA-SNR; all other members participate
- iv. Cost to be allocated based upon 50% to SMUD and 50% to remaining members prorated by share of generation/60kV and above buses among the remaining members:
  1. SMUD = (50%)
  2. MID = (30%)
  3. Roseville = (10.5%)
  4. Redding = (9.5%)

#### b. Estimated costs by member:

MEMBER	PA-1 ASSESMENT
SMUD (50%)	\$ 167,087.50
MID (30%)	\$ 100,252.50
ROSEVILLE (10.5%)	\$ 35,088.38
REDDING (9.5%)	\$ 31,746.63
<b>TOTAL</b>	<b>\$ 334,175.00</b>

5. Participation Agreement #4 (PA-4) –Market Alternatives Evaluation – Revision 1

## a. Assumptions

- i. BANC EIM Participants elect to move forward with participation in CAISO EDAM. EDAM implementation will be transitioned to a separate PA in 2024. We believe that continued monitoring of SPP Markets+ and WPP WRAP is warranted. This likely will include FERC filings and also possible FERC meetings and technical conferences. Also, RTO discussions will likely ramp up as reflected in recent Studies performed by various advocacy groups. We assume in this budget estimate the current legal resource commitment rate through the end of 2023. Total monthly legal services budget would be \$16,105, allocated \$7,625/month BB&W, \$8,480/month WEL.
- ii. It is assumed that all Participating Resources (SMUD, MID, WAPA-SNR, Roseville, and Redding) participate in this effort. (NOTE: Shasta Lake loads assumed part of Redding load for this allocation). Cost allocation based upon 2024 3-year rolling average NEL as follows:
  1. SMUD – 64.6%
  2. MID – 15.5%
  3. WAPA-SNR – 7.3%
  4. Roseville – 6.9%
  5. Redding – 5.7%

iii. Engage The Brattle Group to perform a transmission evaluation for Redding Electric in an amount not exceed \$40,000

- b. Estimated costs for monitoring day-ahead market development reflect that, while the character of the engagement will change, focus and extensive effort will continue through the year. ~~Consultant support will be limited to part of the contract support from CES.~~

IMPLEMENTATION CATEGORY	COST ESTIMATE	SMUD	MID	WAPA-SNR	ROSEVILLE	REDDING
Legal Support						
~ BB&W Retainer	\$ 91,500.00					
~ WEL Retainer	\$ 101,760.00					
<b>Legal Support Total</b>	<b>\$ 193,260.00</b>	<b>\$ 124,845.96</b>	<b>\$ 29,955.30</b>	<b>\$ 14,107.98</b>	<b>\$ 13,334.94</b>	<b>\$ 11,015.82</b>
Consultant Support						
~ Brattle Support for Redding	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -	\$ 40,000.00
~ Market Dev, Spt. (CES)	\$ 24,000.00	\$ 15,504.00	\$ 3,720.00	\$ 1,752.00	\$ 1,656.00	\$ 1,368.00
<b>~ Consultant Support Total</b>	<b>\$ 64,000.00</b>	<b>\$ 15,504.00</b>	<b>\$ 3,720.00</b>	<b>\$ 1,752.00</b>	<b>\$ 1,656.00</b>	<b>\$ 41,368.00</b>
<b>Total Estimate</b>	<b>\$ 257,260.00</b>	<b>\$ 140,349.96</b>	<b>\$ 33,675.30</b>	<b>\$ 15,859.98</b>	<b>\$ 14,990.94</b>	<b>\$ 52,383.82</b>
Contingency (~5%)	\$ 12,863.00	\$ 7,017.50	\$ 1,683.77	\$ 793.00	\$ 749.55	\$ 2,619.19
<b>TOTAL for 2024</b>	<b>\$ 270,123.00</b>	<b>\$ 147,367.46</b>	<b>\$ 35,359.07</b>	<b>\$ 16,652.98</b>	<b>\$ 15,740.49</b>	<b>\$ 55,003.01</b>

Attachment A to Resolution 24-07-01

11. 2024 BANC Member Assessments

MEMBER	BASE BUDGET	PA-1: PA/PC	PA-2: RC West	PA-4: MKT MONITORING	PA-5: EIM Part.	PA-8: EDAM Imp.	PA-9: Resource Projects Dvlpmt	Proposed 2024 TOTAL	Amended 2023 TOTAL (9/27/23)
SMUD	\$ 1,622,171.48	\$ 167,087.50	\$ -	\$ 147,367.46	\$ 3,166,683.40	\$ 754,208.18	\$ 163,380.00	\$ 6,020,898.02	\$ 5,154,058.08
MID	\$ 403,249.01	\$ 100,252.50	\$ -	\$ 35,359.07	\$ 814,438.02	\$ 143,422.38	\$ 23,100.00	\$ 1,519,820.97	\$ 1,344,427.51
ROSEVILLE	\$ 180,215.13	\$ 35,088.38	\$ 36,234.00	\$ 15,740.49	\$ 338,225.90	\$ 63,846.09	\$ 11,760.00	\$ 681,109.99	\$ 605,250.79
REDDING	\$ 113,869.62	\$ 31,746.63	\$ -	\$ 55,003.01	\$ 334,061.74	\$ 52,742.42	\$ 11,760.00	\$ 599,183.42	\$ 496,554.85
SHASTA LAKE	\$ 33,172.76	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,172.76	\$ 30,152.30
TPUD	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000.00	\$ 25,000.00
<b>BANC TOTAL</b>	<b>\$ 2,377,678.00</b>	<b>\$ 334,175.00</b>	<b>\$ 36,234.00</b>	<b>\$ 253,470.02</b>	<b>\$ 4,653,409.05</b>	<b>\$ 1,014,219.08</b>	<b>\$ 210,000.00</b>	<b>\$ 8,879,185.16</b>	<b>\$ 7,655,443.53</b>
WAPA-SNR	\$ -	\$ -	\$ -	\$ 16,652.98	\$ 355,875.95	\$ 67,547.32	\$ -	\$ 440,076.24	\$ 458,956.28
<b>GRAND TOTAL</b>	<b>\$ 2,377,678.00</b>	<b>\$ 334,175.00</b>	<b>\$ 36,234.00</b>	<b>\$ 270,123.00</b>	<b>\$ 5,009,285.00</b>	<b>\$ 1,081,766.40</b>	<b>\$ 210,000.00</b>	<b>\$ 9,319,261.40</b>	<b>\$ 8,114,399.81</b>