

Balancing Authority of Northern California

Regular Meeting of the Commissioners of BANC and Strategic Planning Session

1:00 P.M.

Wednesday, July 25, 2018

Delta King Hotel

1000 Front St

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 25, 2018 at 1:00 p.m.**, in the **Delta King Hotel, 1000 Front St, Sacramento, CA 95814**.

AGENDA

- 1 Call to Order.**
- 2 Introductions and Logistics.**
- 3 Matters subsequent to posting the Agenda.**
- 4 Public Comment** – any member of the public may address the Commissioners concerning any matter on the agenda.
- 5 Consent Agenda.**
 - A. Minutes of the Regular Commission Meeting held on June 27, 2018.
 - B. BANC Operator's Report (June).
 - C. Compliance Officer's Report (July).
 - D. PC Committee Chair's Report (July).
 - E. General Manager's Report and Strategic Initiatives Update.
- 6 Regular Agenda Items – Discussion and Possible Action.**
 - A. Consider and Possibly Approve Resolution 18-07-18 *Authorizing General Manager to Transition RC Services from Peak RC to CAISO*.
- 7 BANC Strategic Planning Session – “BANC GOING FORWARD”.**
- 8 Adjournment.**

Balancing Authority of Northern California

Consent Agenda Items

- A. Minutes of the June 27, 2018 BANC Regular Meeting.**
- B. BANC Operator's Report (June).**
- C. Compliance Officer's Report (July).**
- D. PC Committee Chair's Report (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)

June 27, 2018

On this date, a Regular Meeting of the Commissioners of the Balancing Authority of Northern California (BANC) was held at 915 L Street, Suite 1480, Sacramento, CA 95814.

Representatives Present:

Member Agency	Commissioner
Modesto Irrigation District	James McFall, Chair
City of Redding	Nick Zettel
City of Roseville	Todd White
Sacramento Municipal Utility District	Paul Lau
City of Shasta Lake	Absent
Trinity Public Utilities District	Paul Hauser

Agency	Liaison
Western Area Power Administration	Kevin Howard, Sonja Anderson, Arun Sethi

1. Call to Order: Chair McFall called the meeting to order at 2:01 p.m.
2. Matters Subsequent to Posting the Agenda: None.
3. Public Comment: Chair McFall invited comments from the public and none were given.
4. Consent Agenda: Mr. Hauser moved, Mr. White seconded, and the participating Commissioners unanimously approved the Consent Agenda items comprised of the: (A) Minutes of the Regular Commission Meeting held on April 25, 2018; (B) BANC Operator's Reports for April and May; (C) Compliance Officer's Reports for May and June; (D) PC Committee Chair's Reports for May and June; and (E) General Manager's Report and Strategic Initiatives Update.
5. Regular Agenda Items:
 - A. Mr. Shetler provided an EIM implementation update, including the status of the EMS upgrade (hardware/software delivered, testing initiated); other software upgrades (expected July delivery, followed by testing); EIM Operator training for 5 new operators (in process); metering and risk management policy issues (see subsequent agenda item); the EIM Entity Agreement (see subsequent agenda item); routine project meetings with CAISO (next meeting 7/7/18); and continued cost allocation discussions within the BANC EIM Oversight Committee.

With regard a possible Phase 2, a SMUD proposal has been reviewed and considered by potential participants and WAPA-SNR. The initial reaction has been positive from those groups and CAISO. TID continues to express interest in coordinating with BANC. 2021 is likely the earliest that a Phase 2 could be implemented.

MINUTES OF THE REGULAR MEETING OF THE COMMISSIONERS OF THE
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- B. Ms. Kirkegaard provided an update on the status of the BANC 'Members Only' website and provided a demo of the new site for the group. Account access will be initially provided to the Commission and the Member Compliance Review Committee (MCRC), followed by the Planning Committee (PC). Rollouts to other committees will likely occur in the fourth quarter. Mr. McFall asked a question regarding folder access. Initially, users will only have access to those committee folders on which they participate; however, folder permissions may evolve following the pilot.
- C. Mr. Smith provided an overview of the rationale behind the proposal that BANC rely on SMUD's risk management policies and procedures to fulfill certain requirements and obligations under EIM Phase I. These risk policies have been reviewed by the BANC GM and BANC Counsel. Mr. Shetler informed the group that this issue will need to be revisited should a second phase of EIM move forward. Mr. Lau moved, Mr. White seconded, and the participating Commissioners unanimously approved Resolution 18-06-19 *Adoption of Specified Risk Management Policies and Procedures in Furtherance of the Energy Imbalance market Entity Scheduling Coordinator Certification*.
- D. Mr. Smith and Mr. Braun reviewed the background and specifics on contractual arrangements to effectuate EIM participation, including the EIM Entity Agreement, EIM Entity Scheduling Coordinator Agreement, and EIM Entity Meter Services Agreement. Mr. Hauser moved, Mr. Lau seconded, and the participating Commissioners unanimously approved Resolution 18-06-20 *Authorization for the General Manager to Execute Specified Energy Imbalance Market Entity Agreements with the California Independent System Operator Corporation*.
- E. Mr. Willis provided an overview of the 2018 Summer Load & Resources Assessment, including a 2017 summer operations review, the 2018 load forecast and historical load, a generation resource forecast, the load & resource outlook, and scheduled major outages. Mr. Howard provided the Commission with an update regarding planned outages related to a 500kV line requiring insulator replacements; the outages have been rescheduled multiple times but are now planned for spring/fall of 2019 and spring of 2020. Mr. Willis informed the Commission that engineering studies concluded that BANC can serve expected load demand in summer 2018 while meeting NERC/WECC reliability standards, and BANC/SMUD System Operators are preparing for summer operations through Summer Readiness Training. Mr. White moved, Mr. Zettel seconded, and the participating Commissioners unanimously approved Resolution 18-06-21 *2018 Summer Load & Resources Assessment of the Balancing Authority of Northern California*.
- F. Mr. Shetler provided an overview of the Initial BANC 2019 Budget Estimate, which is still a work in process. Additional updates will be provided at future Commission meetings.
- G. Mr. Shetler reviewed the proposed agenda for the upcoming Strategic Planning Session, which is scheduled for July 25, 2018 from 1-5 p.m. at the Delta King.

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6. Closed Session:

- A. The Commission retired to closed session for conference with legal counsel pursuant to subdivision (c) of Cal. Gov't Code § 54956.9; two cases. After returning to open session, Mr. Braun reported that during closed session, the Commission did not take any action.

The meeting was adjourned at 4:16 p.m.

Minutes approved on July 25, 2018.

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 June 2018

Operations:

- BA Operations: Normal
- Significant BA Issues: None
- NWPP
 - 1 contingency requiring activation of NWPP
 - 270 MW average generation lost
 - 270.4 MW maximum generation lost
 - All recoveries within .5 minutes
- USF
 - 23 of 30 days with instances of USF mitigation procedure utilized
 - 21 days on Path 66
 - No operational impact on BANC
- BAAL Operation:
 - Number of BAAL exceedance >10 minutes: None
 - Maximum duration of BAAL exceedance: 4 minutes
 - BAAL violation (BAAL exceedance >30 minutes): None
- COI Actual Flow Greater Than TTC: 25.2 Hours

Monthly Notes:

- No additional notes or impacts for June 2018

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's Report

BANC Commission

July, 2018

The following summarizes 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.

BA Compliance Issues:

- No significant operational Balancing Authority compliance events occurred.
- All required BA compliance reports and operating data were submitted to WECC.

BANC MCRC:

- The Member Compliance Review Committee (MCRC) met in-person at the SMUD campus on July 16, 2018, and were treated to a variety of presentations and networking activities, including the GM's "*BANC 101 Presentation*" and an Energy Management Center tour. The next regularly-scheduled MCRC teleconference will be held at 10:00 AM on Monday, August 20, 2018.

BANC PC Committee Chair's Report

July 2018

The following summarizes Planning Coordinator-related issues 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 Issues:

- SMUD staff completed the stability analysis for the 2018 BANC PC Ten-Year Transmission System Assessment (TPL-001-4) and distributed the initial results to the BANC PC Participants for their review. There were no issues identified in the stability analysis. Now that all analyses are complete and out for review to the PC Participants, staff is working on a draft study report for review in July.
- SMUD staff has completed the 2018 BANC PC System Operating Limit Studies for the BANC PC Area (FAC-014-2) and have submitted the results to the PC Participants for their review. The results are very similar to last year's results.
- The BANC PC is now offering a new PC Service to interested PC Participants. This service is the evaluation of new projects located outside the BANC PC footprint for their impact on a PC Participant's system. For example, should the City of Redding need assistance in determining whether a project on an adjacent (non-BANC PC) system impacts their system, they now have the option of requesting that the BANC PC assist in such an evaluation. The fee for this service would be an hourly fee to be determined at a later day.
- The next BANC PC Committee meeting is scheduled for July 18th, 2018 at 3pm via WebEx. The three main topics on the agenda are:
 - TPL-001-4 study results discussion
 - New BANC PC Service (discussed above)
 - CAISO NDA (BANC PC Participants need to execute this NDA to receive CAISO base cases in the future)

GM Report

BANC Commission Meeting

July 25, 2018

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:

TID

We continue to be open to discussions with TID regarding potential joint efforts on EIM participation. TID provided feedback that they have been given authority to work with BANC on potential EIM participation and possible joint use of the SMUD/BANC EMS. Prior feedback from TID is that they wanted to see if the actual benefits for SMUD in Phase 1 of BANC EIM match the forecast before they commit to moving forward with EIM participation. However, TID did seek a rough estimate of what joining the BANC EIM might cost for their planning purposes. We had a meeting with TID staff on January 12, 2018, to discuss various options for BANC and TID to work together in the future. These included the potential for TID to join BANC and/or to work with BANC on EIM participation. Follow-up discussions indicate that TID is still interested in working jointly with BANC and also with SMUD regarding joint EMS. Based upon further review, we believe that TID participation with BANC on EIM and SMUD with EMS would be best accomplished with TID joining BANC. We held follow-up discussions with TID in late June and provided them with details on potential savings they could see in joining BANC. We have also provided them with the JPA and member agreements to assist in their decision-making.

LADWP/Seattle City Light/SRP

Dialogue continues with these entities regarding EIM participation. LADWP received approval from the City Council in May 2017 to participate in EIM. They are still shooting for a Spring 2019 go-live date, though there are strong indications this could slip to Spring 2020. Seattle City Light received approval in November 2016 from the City Council to proceed with participation in EIM. SCL has recently announced that they will slip implementation to spring of 2020. SRP management received approval from its Board in February 2017 to participate in EIM and made its formal announcement in early May. They are currently forecasting "go-live" in spring 2020. Based upon the group's discussions, we have agreed to continue to interact on an informal basis to make sure we are on the same page on EIM issues

from a POU perspective. In addition, we are collaborating with the other POUs on joint language to use in the EIM agreement that we will all need to sign for EIM operations, on how to address market-based rate authority with DMM, and potential common language for OATT revisions. We have also worked with the other three entities to agree upon the joint funding of BBSW to monitor CAISO interfaces for us.

POU Western Markets Initiative

BANC continues to participate in this effort, which is being coordinated by APPA. The group continues to evaluate how best to represent the POUs in the ever-changing power markets in the West. The next in-person meeting is scheduled for Sacramento in September.

Market Initiatives:

EIM Participation

The CAISO filed the BANC Implementation Agreement with FERC on 3/24/17. BANC did file at FERC in support of approval of the agreement. FERC issued a letter order on 5/18/17 accepting the CAISO filing for BANC EIM participation. BANC has initiated the efforts for registering with the CAISO as the BANC EIM Entity and SC for the EIM project. In addition, BANC is working with the Treasurer to identify the processes and approvals needed to obtain counterparty financial status with the CAISO. Approvals by the Commission to accommodate risk policies for BANC will be brought to the June meeting.

Utilicast finalized the system “gap” analysis on technologies to identify any additional areas needed for supporting EIM implementation. Results of the system “gap” analysis were presented on June 29, 2017. No major areas of concern were identified. Utilicast stated that the BANC/SMUD team is the best prepared for EIM participation of any entity they have evaluated. Utilicast completed a process “gap” analysis, with a report provided on October 3, 2017. This analysis also concluded that there are no major areas of concern.

BANC and SMUD have met to discuss the initial outline of scope of services for the BANC/SMUD EIM Services Agreement. BBSW has finalized a formal agreement and BANC and SMUD have agreed upon initial funding levels. The Commission at its January 2018 meeting approved the agreement. The BANC EIM Oversight Committee has agreed upon an approach for cost allocation.

BANC, SMUD, and the other members continue to discuss the issue of internal bilateral trading within the BANC footprint once SMUD participates in EIM in 2019. We have outlined the scope of the problem, have held discussions with the CAISO to better understand the limitations on SMUD in EIM, and are shooting to return to the Commission late 2018 with some preliminary recommendations on how to proceed.

BANC and TANC continue to hold discussions with the CAISO regarding IBAA relief. As a result of these discussions, the CAISO has initiated evaluating options for BANC/TANC consideration. We will update the Commission when these options are fully defined.

The CAISO has also announced the intent to allow EIM entities to participate in an extended Day-ahead Market (EDAM). The details of how this will work will be discussed in 2018, including a cost/benefit analysis. It is expected that if an EDAM looks feasible the CAISO would use 2019 to conduct a formal stakeholder process followed by tariff filings at FERC. The EIM entities have initiated discussions among themselves and with the CAISO regarding the key issues that will need to be addressed for potential participation in the day-ahead market.

WAPA:

Market Engagement

We are working with WAPA on integrating them in to the EIM implementation discussions. This includes EIM Phase 2 discussions with WAPA, MID, Redding, and Roseville. Based upon these discussions, the group has developed a set of “principles” for a possible Phase 2. In addition, the group has contracted with GridSME for additional evaluation work for a possible Phase 2. GridSME issued its preliminary report in early August and a revision in early September. The Phase 2 group has reviewed this report. In addition, SMUD has offered some concepts around moving forward with a possible Phase 2, which the group reviewed in December 2017. We followed-up with WAPA-SNR regarding their role in potential Phase 2 and believe we have resolved any issues. We have also held preliminary discussions with the CAISO on the SMUD Phase 2 concepts and received initial, favorable response. We will discuss this concept at the Strategic Planning Session, with a goal of having this finalized with the CAISO by the end of 2018.

In addition, Redding has requested that a separate task, which would be solely funded by Redding, be initiated with GridSME to evaluate the effort necessary for Redding to become a scheduling coordinator (SC). Based upon discussions with BBSW, we have determined that this task can be initiated under the current delegations to the General Manager. This effort has been completed.

San Luis Transmission Project

WAPA-SNR has announced its intent to work with the Bureau of Reclamation and CDWR to construct the SLTP. BANC met with WAPA and the other parties to fully understand the implications of having this new transmission project in the BANC BA/WAPA-SNR sub-BA. We are anticipating some follow-on meetings with WAPA-SNR, DWR, and CAISO as this project progresses.

Peak Reliability:

Aliso Canyon

Peak/CAISO/LADWP/SCE have finalized assessments for summer 2018. Public meetings were scheduled to start the process for determining if Aliso Canyon can “restart”. Indications are that public opposition to restart of Aliso Canyon will be strong. At this stage, it is assumed that Aliso Canyon will not be available for use this summer, though there might be a possibility for “emergency” use. Though partial injection of gas in to the fields has begun, the Governor has also requested that shutdown of the field within 10 years be evaluated.

Peak/PJM Connex Partnership

Peak and PJM Connex have completed their business case for both development of a new market and for core RC services. Their business case has been posted on the Peak website. Peak is holding meetings with interested parties to determine if there is enough interest to proceed with a more formal market development effort and to determine which entities might be staying with Peak as their Reliability Coordinator (RC). Based upon feedback to date, Peak/PJM Connex has extended their market commitment date until this fall.

RC Services Alternatives

BANC and the three TOPs (SMUD, MID, and WAPA-SNR) in the BANC footprint submitted in late March their revocable notices of withdrawal from Peak. In addition, BANC and the TOPs have entered in to non-binding letters of intent to evaluate RC services from the CAISO. This effort has formally kicked off. Peak has also issued alternative budget proposals for next year:

- Wind down Peak by the end of 2019
- Continue Peak RC at current levels through 2019 and then move to the Transitional RC in 2020

Peak is seeking Funding Party input by late July on which of these options is preferred.

WECC

Electricity/Natural Gas Reliability Interface

WECC initiated its natural gas/electricity interface study in September 2017. Based upon further discussions with WECC, I have been asked to participate on the executive oversight committee for this effort. The status of this effort was discussed at the February 2018, WEIL meeting in San Diego, which I attended. This was discussed at the WECC Board meeting on 3/6-7/18 in Salt Lake City. An update was also provided at the WEIL meeting in early May 2018. WECC provided a public version of the report at its meetings on June 19-20, 2018.

WECC Board Meetings

The WECC Board met on June 19-20, 2018, in Salt Lake City, for its normal quarterly meeting. Besides the discussion on the Gas/Electric interface study, WECC also conducted member voting on:

- Three Board member seats (the current three were re-elected);
- Bylaws amendments (which were approved, though with concerns raised regarding the dispute resolution process change); and
- Advisory vote on the WECC name change (which resulted in a slightly negative vote – the Board decided to table this issue for now).

WECC CEO Search

On July 16th, WECC has announced the selection of Melanie Frye as its new President and CEO. Ms. Frye most recently served as WECC's Vice President of Reliability Planning and Performance Analysis. She has been at WECC since 2007.

RC Services for the West

WECC and NERC issued a joint letter to the BAs and TOPs in the West seeking input by September 4, 2018, as to which RC footprint the entities will be using for their long-term RC. WECC/NERC are trying to gauge what level of certification support they will need to be providing over the next year to allow RC transitions to occur.

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. We have received feedback that CDWR intends to use SMUD for transmission service at the north end of the project and WAPA for the south end, but are still awaiting a formal announcement of their decision. CDWR is also waiting on formal decisions by the water contractors to fund the project.

Strategic Initiatives:

Refer to the 2017/2018 Strategic Initiatives update, which is attached to this report. Note that this update reflects the additional initiatives agreed upon at the June 2017 Strategic Planning Session.

BANC 2017/2018 Strategic Plan - Focused Initiatives - July 2018 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		Develop long-term succession plan and traits for General Manager	Jim Shetler/Commission	4th Qtr. 2019	Initial discussion at 7/25/18 Planning Session
3 Medium		Develop BANC "101" Training presentation	Jim Shetler/BBSW	4th Qtr. 2017	COMPLETED
4 Low		Organizational Issues: ~Issue committee rosters ~Update website	Jim Shetler/BBSW Jim Shetler/BBSW	3rd Qtr. 2017 1st Qtr. 2018	COMPLETED COMPLETED
5 Medium	OUTREACH	Engage in industry forums (WECC, Peak, NWPPA, etc.)	Jim Shetler	Ongoing	Continue attending Peak & WECC Board meetings & NWPP Exec. Forum
6 Medium		Coordinate with other POU BAs (Ca and regionally)	Jim Shetler	Ongoing	Coordinating with SCL, SRP, LADWP, & TID on EIM
7 Medium		Outreach to regulatory and legislative bodies on key issues	Jim Shetler/BBSW	Ongoing	~ FERC staff/Commissioner meetings 3/20/18
8 Medium	ASSETS	Identify and implement efforts to improve BANC member asset optimization & renewable integration	Resource Committee	3rd Qtr. 2018	~Data collection complete ~Draft report final. Will present results at 7/25/18 Planning Session
9 Low	MEMBER SERVICES	Identify and outreach to potential new BANC members	Jim Shetler	Ongoing	~Continue follow-on discussions with TID on EIM. Mtg on 6/29/18

BANC 2017/2018 Strategic Plan - Focused Initiatives - July 2018 Update

No./Priority	Focus Area	Initiative	Responsibility	Target Due Date	Status
10 High	INDEPENDENCE	Manage implementation of EIM participation effort	Jim Shetler	No earlier than Spring 2019	~Finalizing EIM reqmts documents w/ CAISO ~ Addressing Bilateral trading issue ~ Addressing EIM data sharing issue ~ Initiated market support contract with EnergyGPS
11 Medium	OUTREACH	Evaluate opportunities to engage other entities in market development	Jim Shetler	4th Qtr. 2017	~ Continue coordination w/ LA, SCL, SRP ~ Continue TID discussions
12 High		Regional Policy Issues: Monitor/ weigh-in where appropriate	Jim Shetler/Commission	Ongoing	
13 Medium		Regionalization: ~Monitor CAISO governance ~ Develop white paper on BA consolidation	Jim Shetler/BBSW Jim Shetler/BBSW	Ongoing 1st Qtr. 2018	COMPLETED
14 Medium		Monitor MWTG & Peak impacts & alternatives	Jim Shetler	Ongoing	~ Discussion on next steps at 7/25/18 Planning Sess.
15 Medium	ASSETS	Develop BANC footprint "IRP" focused on VERs firming & renewables.	Resource Committee	1st Qtr. 2018	~Draft report final. Will present results at 7/25/18 Planning Session
16 High	MEMBER SERVICES	Implement PA/PC project to be fully compliant	Jim Shetler/SMUD	Dec-17	COMPLETED

Balancing Authority of Northern California

Agenda Item 6A

1. **Resolution 18-07-18 Authorizing General Manager to Transition RC Services from Peak RC to CAISO.**

**Balancing Authority of Northern California
Resolution 18-07-18**

**AUTHORITY TO EXECUTE AGREEMENTS AND TAKE OTHER ACTION
TO PROVIDE FOR RELIABILITY COORDINATOR SERVICES**

WHEREAS, the Balancing Authority of Northern California ("BANC") was created by a Joint Powers Agreement ("JPA") to, among other things, acquire, construct, maintain, operate, and finance Projects; and

WHEREAS, BANC has taken Reliability Coordinator ("RC") services from Peak Reliability Corporation ("Peak RC"), which currently serves as the Reliability Coordinator for the Western Interconnection; and

WHEREAS, Peak RC sought to partner with PJM to provide market services, triggering numerous entities to provide notices of termination of their agreement to fund Peak RC services; and

WHEREAS, BANC provided its Revocable Notice of Termination of its agreement to fund Peak RC services effective December 31, 2019; and

WHEREAS, Peak RC has recently announced its intention to wind down operations effective December 31, 2019; and

WHEREAS, BANC has worked with numerous other Balancing Authorities and Transmission Operators to develop options for continued provision of RC services after termination of Peak RC operations, including participation in the California Independent System Operator Corporation ("CAISO") process to develop oversight of the CAISO's own RC services and a Reliability Coordinator Services Agreement; and

WHEREAS the BANC General Manager's delegated contracting authority is limited to \$25,000 and the costs of RC services may exceed this delegated amount; and

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

Authorize the General Manager to continue to examine issues associated with the provision of RC services, coordinate with the TOPs within the BANC footprint, and execute agreements as needed to ensure that the provision of RC services to BANC is seamless upon cessation of operation of the Peak RC.

PASSED AND ADOPTED by the Commissioners of the Balancing Authority of Northern California this 25th day of July 2018, by the following vote:

		Aye	No	Abstain	Absent
Modesto ID	Greg Salyer				
City of Redding	Dan Beans				
City of Roseville	Michelle Bertolino				
City of Shasta Lake	James Takehara				
SMUD	Paul Lau				
TPUD	Paul Hauser				

Greg Salyer
Chair

Attest by: C. Anthony Braun
Secretary