



California ISO



RC West

# RC West Oversight Committee

Public Session

Oct 10, 2023

1:00pm-2:30pm Pacific Time

# Housekeeping Reminders

- This call is being recorded for informational and convenience purposes only. Please request permission from RC West before reprinting any related transcriptions.
- Materials related to the RC West Oversight Committee are available on [www.caiso.com](http://www.caiso.com) / Stay Informed / RC West.

## Instructions for raising your hand to ask a question

- If you are connected to audio through your computer or used the “call me” option, select the raise hand icon  located at the bottom of your screen. **Note:** #2 only works if you dialed into the meeting.
  - Please remember to state your name and affiliation before making your comment.
- If you need technical assistance during the meeting, please send a chat to the event producer.
- You may also send your question via chat to either Yelena Kopylov-Alford or to all panelists.

# Agenda

Time:	Topic:	Presenter:
1:00 - 1:05	Welcome/agenda	Yelena Kopylov-Alford
1:05-1:15	<b>Oversight Committee Business</b> <ul style="list-style-type: none"> <li>Vote on Annual charter</li> </ul>	Chris Hofmann & Tricia Johnstone
1:15- 1:40	<b>RC West Operations Update</b> <ul style="list-style-type: none"> <li>Welcome</li> <li>General operations</li> <li>Procedures update</li> <li>RC metrics update</li> </ul>	John Phipps Tim Beach Kathleen Fernandez Kendall Parra & Aung Oo & Daniel Tiang
1:40 – 2:20	<b>Working Group Updates</b> <ul style="list-style-type: none"> <li>October 14, 2023 Solar Eclipse Planning</li> <li>FERC 881 Update</li> <li>SOL Methodology Changes for 2024</li> </ul>	RajaShekar Thappetaobula
2:20 – 2:25	<b>Future agenda items</b> <ul style="list-style-type: none"> <li>Projected 2024 meeting dates</li> <li>In-person/hybrid meeting interest</li> </ul>	Tricia Johnstone
2:25	<b>Public Comment</b>	
2:30	<b>Public Session Adjourned</b>	

# Oversight Committee Business

**Chris Hofmann**  
Committee Chair

**Christopher Sanford**  
Vice Chair

# Annual Charter Review

Chris Hofmann  
Committee Chair

# Update: RC West Operations

Tim Beach  
Kathleen Fernandez  
Samson Adigun

# RC West Operations Update

Peak Load	YTD	Historical
WECC	164,235 MW (08/16/2023)	167,530 MW (9/6/2022)
RC West	126,317 MW (08/16/2023)	130,986 MW (9/6/2022)

# RC West Operations Update – EEA

<b>Energy Emergency Alert</b>	<b>2023</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>
<b>EEA - W</b>	<b>7</b>	<b>9</b>	<b>4</b>	<b>NA</b>
<b>EEA - 1</b>	<b>12</b>	<b>19</b>	<b>7</b>	<b>26</b>
<b>EEA - 2</b>	<b>0</b>	<b>7</b>	<b>3</b>	<b>9</b>
<b>EEA - 3</b>	<b>6</b>	<b>7</b>	<b>3</b>	<b>12</b>
<b>Total</b>	<b>25</b>	<b>42</b>	<b>17</b>	<b>47</b>

All 6 EEA-3 declarations related to arming firm load for contingency reserves.

# RC West Operations Update

Type	8/21/2023-10/02/203	3/15/2023-8/21/2023
EEA-W	0	7
EEA-1	3	7
EEA-2	0	1
EEA-3	1	4
Insecure Operating State	1	3
IROL Margin	0	1
IROL Exceedance	0	0
Forced Outage 345-500kV Equipment	48	92
Frequency Excursion	7	16
Mitigation	51	87
Oscillation	3	4
Contingency Reserve	6	19
Wildfire	4	35
Islanding	4 (AESO)	1 (AESO)

# RC West Operations Update – Procedure Update

## Recently Published Procedures:

RC Proc. #	Procedure Title	Status	Description of changes
RC0520	Loss of Monitoring and Analysis Tools	Published 10/05/23	Section 3.1: Updated 2nd bullet for contacting the Service Desk. Section 3.2 & 3.3: Updated sub-bullet to notify the Manager, Real-Time Operations. Sections 3.4 3.5, 3.6, 3.7 & 3.9: Updated bullet to coordinate contacting the Service Desk.
RC0420	Event Reporting	Published 9/26/23	Updated noting that RCs will notify the Manager, Real-Time Operations for any reportable event instead and Manager will be central point of contact for reportable events, and responsible for submitting Event Reports.
RC0470	Loss of Control Center Functionality	Published 9/26/23	Various updates made in Section 1 and Sections 3.2 through 3.4 due to the change with MRTO now having single decision-making authority for the whole control center for Loss of Control Center Functionality.
RC0470B	Evacuation and Loss of Control Center Functionality Checklists	Published 9/26/23	Update to reflect that single decision-making authority for the whole control center lies with the MRTO for Loss of Control Center Functionality. Minor format and grammar edits.
RC0520	Loss of Monitoring and Analysis Tools	Published 9/26/23	Replaced Shift Manager with Manager of Real-Time Operations and other various changes, which include: RCs to notify MRTO instead of Service Desk for loss of any shared internal tools. Removed notifying neighboring RCs via RCIS for tool failures, as this is done with GMS. Clarifies that requests for additional personnel support go to MRTO. Spelled out first instance of CAISO, minor edits with procedure references for consistency, minor formatting, and grammar edits.
RC0410	System Emergencies	Published 9/05/23	Section 3.1.6: Minor update to EEA Watch template. Section 3.6: Replaced ERC reference with JIC Lead.
RC0110	Communications Protocols	Published 8/29/23	Annual Review: Minor formatting only, no content changes.
RC0520	Loss of Monitoring and Analysis Tools	Published 8/10	Section 3.5 and 3.6: updated to clarify RC actions to be initiated for SE or RTCA failures lasting for two or more consecutive runs.

# RC West Operations Update – Procedure Update

## Recently Published Procedures - *continued*:

RC Proc. #	Procedure Title	Status	Description of changes
RC9570	CENACE EEAs and Requests for Emergency Assistance	Published 8/10	Section 2.1: Updated regarding CAISO not providing emergency assistance when CAISO BA is in an EEA Watch or higher. Minor punctuation edit in Item 2. Section 2.2: Provided further clarification under Emergency Assistance and Load-Arming to Meet Reserves.
RC9550	Monitoring Heavy E-W Flows on SWPL, HANG2, SRPL, and Parallel Transmission	Published 8/01	Section 4: Added Yuma transformer overload for the loss of Imperial Valley – North Gila 500 kV line. Updated instance of PG&E to PGAE and updated related procedure reference. Updated APS procedure references for Yuma Area. Added Appendix A note where ambient temperature ratings for S-Line would be used and Note 2 about post contingency flow increase by the Orchard project. Appendix B: Minor edit to Note. Added Appendix F, Ambient Temperature Rating Table for IID Lines.

# RC West Operations Update – Procedure Update

## Upcoming Procedure Updates:

RC Proc. #	Procedure Title	Status	Description of changes
RC0100	Reliability Coordinator Authority	Target Publish - 10/10 to 10/12	Updated Purpose and Statement of Authority to address the new administrative oversight role of RC Operators by Managers of Real Time Operations, who will continue to respect and maintain the independence of the RC staff with respect to RC Operating Instructions.
RC0120A	RC West IRO-010 Data Specification	Target Publish - 10/12	Update per NERC Alert 3.
RC0410	System Emergencies	Pending Internal Coordination	TBD
RC9000	Open Loop Guideline	Target Publish - 10/16	Section 3.1: Updated from CAISO Real-Time Market Operator (RTMO) Desk to CAISO Market Operator (MO). Moved content from Section 3.2 to new sub-section 3.3.2.2. 3.3.2: Updated Section title and minor edit in first paragraph for clarification.

# Working Group Updates

# October 14, 2023 Solar Eclipse Planning

Raja Thappetaobula  
Director, Operations Engineering Services

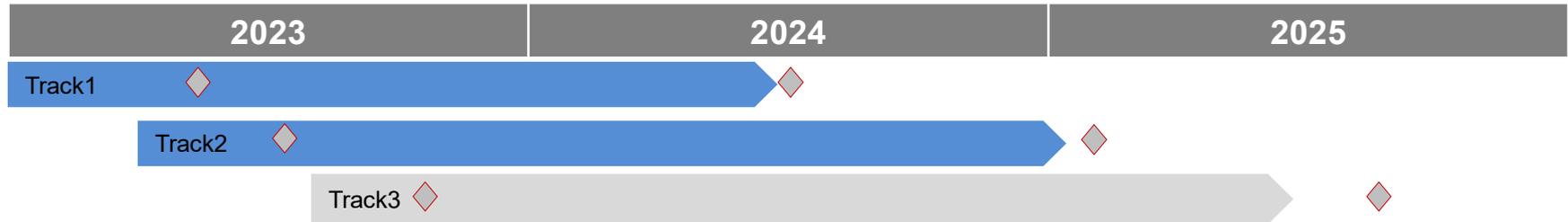
# Solar Eclipse on Oct 14<sup>th</sup> 2023

- Please plan both transmission and generation outages accordingly.
- Please include the solar eclipse impacts and mitigation in the Operating Plans for on-going outages going over 10/14/23.
- Closely monitor RC look ahead reliability studies (D+2 and D+1 studies).

# FERC 881 Ambient Adjusted Rating & Dynamic Line Ratings

Raja Thappetaobula  
Director, Operations Engineering Services

# FERC 881 Project Timelines by Tracks



- **Track 1 – Real Time Reliability Applications**
  - Estimated - Target Capability to be ready by Q2 2024
  - Q3 2024 - Training and Testing after Tool Development
- **Track 2 – Operational/EMS Model Data and Applications**
  - Complete Business Requirements – Early Q4 2024
  - Close of planning phase – Nov 2024
  - Estimated - Target Capability to be ready in 2024
  - Q4 2024 - Training and Testing after Tool Development
  - OATI webLineR product for look ahead application.
- **Track 3 – Market Application and Look Ahead Applications**
  - Q3 2023 - Complete Business Requirements
  - **Resource constraint issues have been identified. We are evaluating what can we accomplish by July 2025.**

## Real time Ratings submission process

- CAISO/RCWEST has started working and collect data with TOP's that have capabilities to calculate and send real time AAR ratings.
- Initially this process involves lot of mapping so we need to work with each individual TOP/PTO.
- CAISO/RCWEST will upload the mapped templates once our Track 1 software is delivered and released for production.

# Fallback Ratings process

- Currently ISO use Summer and Winter ratings in MVA
- In future ISO will use Winter, Spring, Summer and Fall based on season start and end dates
- There will have telemetry failure ride through timer per BAA/TOP

Example:

Geo/Company	Winter	Spring	Summer	Fall	Timer
GCPD	12/21 - 03/20	03/21 - 06/20	06/21 - 09/20	09/21 - 12/20	60
CHPD	12/01 - 02/29	03/01 - 05/31	06/01 - 08/31	09/01 - 11/30	60

**Note: If ICCP link is down over a hour then EMS will switch rating sets to next feasible priority**

## What are all the priorities for ratings switch

- *Priority 1*
  - Manual entered limits by operators
- *Priority 2*
  - Dynamic limits (ICCP with good quality )
- *Priority 3*
  - OMS limits to reflect de rate
- *Priority 4*
  - Current hour forecasted rating from WebLineR
- *Priority 5*
  - Seasonal limits

Note: It is recommended that TOP determine minimum and maximum reasonability limits for each equipment based on seasonal limits (+/- 15% of seasonal limit)

# SOL Methodology Changes for 2024

Raja Thappetaobula  
Director, Operations Engineering Services

# Major SOL Methodology Change Summary

- Broader Acceptable system performance:
  - Emergency Ratings may be used during pre-contingency situation
  - Emergency System Voltage Limits may be used during pre-contingency situation
  - Steady state post-Contingency flow through a Facility must not be above the Facility's highest Emergency Rating.
- Detailed SOL exceedance definition
- Communication of SOL Exceedance
- Stability limit establishment – Major change for RC to validate stability limit that has impact on more than one TOP
- RC West Process for Addressing Corrective Action Plans Submitted by Planning Coordinators (PC) and Transmission Planners (TP) instead of IROLs
- RC West communication of SOL and IROLs to other functional entities

# Future Agenda Items

- The next RC West Oversight Committee meeting is scheduled for 2024; visit [RC West webpage](#) for additional details
- Send topic suggestions to [isorc@caiso.com](mailto:isorc@caiso.com).

# Open for Public Comments

# Public Session Adjourned