



California ISO



RC West

# RC West Oversight Committee

Public Session

Aug 10, 2021

1:00 - 2:30 p.m. Pacific

## New 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  above the chat window located on bottom right corner of the screen. **Note:** #2 only works if you dialed into the meeting.
- If you need technical assistance during the meeting, please send a chat to the event producer.
- Please remember to state your name and affiliation before making your comment.
- You may also send your question via chat to the meeting host - Kristina Osborne.

# Agenda

Time*:	Topic:	Presenter:
1:00 - 1:05	Welcome/agenda	Kristina Osborne
1:05 - 1:15	Roll call	Ben Brandt - Chair
1:15 – 1:55	<b>RC West Operations Update</b> <ul style="list-style-type: none"><li>• General operations</li><li>• Wildfire Coordination Tool Demo</li><li>• Procedures update</li><li>• RC metrics update</li></ul>	Tim Beach, RC West Justin Bohlen, RC West Kathy Fernandez, CAISO Rachel Lucas, CAISO
1:55 – 2:20	<b>Working Group Updates</b> <ul style="list-style-type: none"><li>• Customer Onboarding</li><li>• Operations Planning</li><li>• Real-Time Operations</li></ul>	Gina Wansor, CAISO Aftab Alam, CAISO Tim Beach, RC West
2:20 – 2:25	<b>Future agenda items</b>	
2:25	<b>Public Comment</b>	
2:30	<b>Public Session Adjourned</b>	

# Update: RC West Operations

Tim Beach  
Director, Reliability Coordination

Kathy Fernandez  
Operations Procedure Control Specialist

Justin Bohlen  
Reliability Coordinator

Rachel Melton  
Operations Compliance Analyst

# Operations Update

COVID – Operations staff have return to mask requirements during shift

Wildfire Coordination Tool Demo - Justin Bohlen

Energy Emergency Alerts (EEA)

EEA Watch -4

EEA 1 – 6

EEA 2 – 2

EEA 3 – 3 (Three Balancing Authorities)

Total - 15 (Four Balancing Authorities)

# RC Procedures Update

## Recently Published Procedures:

Procedure No. and Title	Status	Description of changes
RC9130 Path 61/Lugo-Victorville IROL	Published 8/05	Section 2.2: Updated language for clarity. Section 5.1: Added Steps 4 through 8 for clarity of GMS notification requirements. Section 6: Updated version and date with display of CAISO OP 6610 Effectiveness Factors. Sections 7.1 and 7.2: Updated lines and path references. Minor formatting and grammar throughout.
RC9220 WECC Transfer Path 83 (Montana-Alberta Line)	Published 8/05	Annual Review: Section 4: Added "Path 83" to Bullet 5, sub bullet 1. Minor formatting and grammar updates.
RC9710 El Paso Adjusted Actual Net Interchange	Published 8/05	Annual Review: Minor formatting and grammar updates.
RC0130 - Notification Requirements for Real-Time Events	Published 7/21	Section 2: Updated NERC Standard IRO-010 reference. Section 3.1, Item 3.1.4: Removed footnote referencing PRC-001 as it has been retired. Section 3.2: Added requirement for phone notifications to RC for forced and urgent generation derates $\geq 300$ MW. Section 4: Updated Operationally Affected parties and removed NERC Standard PRC-001 reference. Approved by the Real-Time Working Group (RTWG).
RC0310A - Stability SOLs and Areas with Risk of Localized Voltage Collapse	Published 7/21	Procedure title changed to "Stability SOLs and Areas with Risk of Localized Voltage Collapse". Section 3.1: Added Grand Coulee-Malin Phase Angle Difference SOL, and Bridger West (Path 19). Removed NOJD, PDCI and NWACI (N>S) as these are no longer stability limited paths. Added column for mitigation time. Added Section 3.2: Known Areas with Risk of Localized Voltage Collapse. Format and grammar updates for consistency. Approved by the Real-Time Working Group (RTWG).
RC0410 - System Emergencies	Published 6/21	Section 3.1: Updates made related to EEA Watch based on received feedback.
RC0410B - Transmission Emergencies due to Wildfire	Published 7/21	Initial procedure issued - Approved by RTWG.

# RC Procedures Update - continued

## Recently Published Procedures - continued:

Procedure No. and Title	Status	Description of changes
RC9320 - Montana Facilities Seams	Published 7/21	Annual Review: Section 3: Corrected typo in Footnote 1. Section 4: Updated instance of CAISO to RC West.
RC9320A - Montana Facilities Seams Overview	Published 7/21	Annual Review: Minor format and grammar updates and included document controlled statement in footer.
RC9540 - Monitoring IID System	Published 7/21	Removed references of RC9140 & RC9150 (Retired 6/01/20) and reference to WECC Transfer Path 45 Operating Guide. Corrected error in Appendix B for ratings for Coachella Valley Bank 4. Updated Section 4.2.5 title based on feedback received from IID. Minor format and grammar updates.

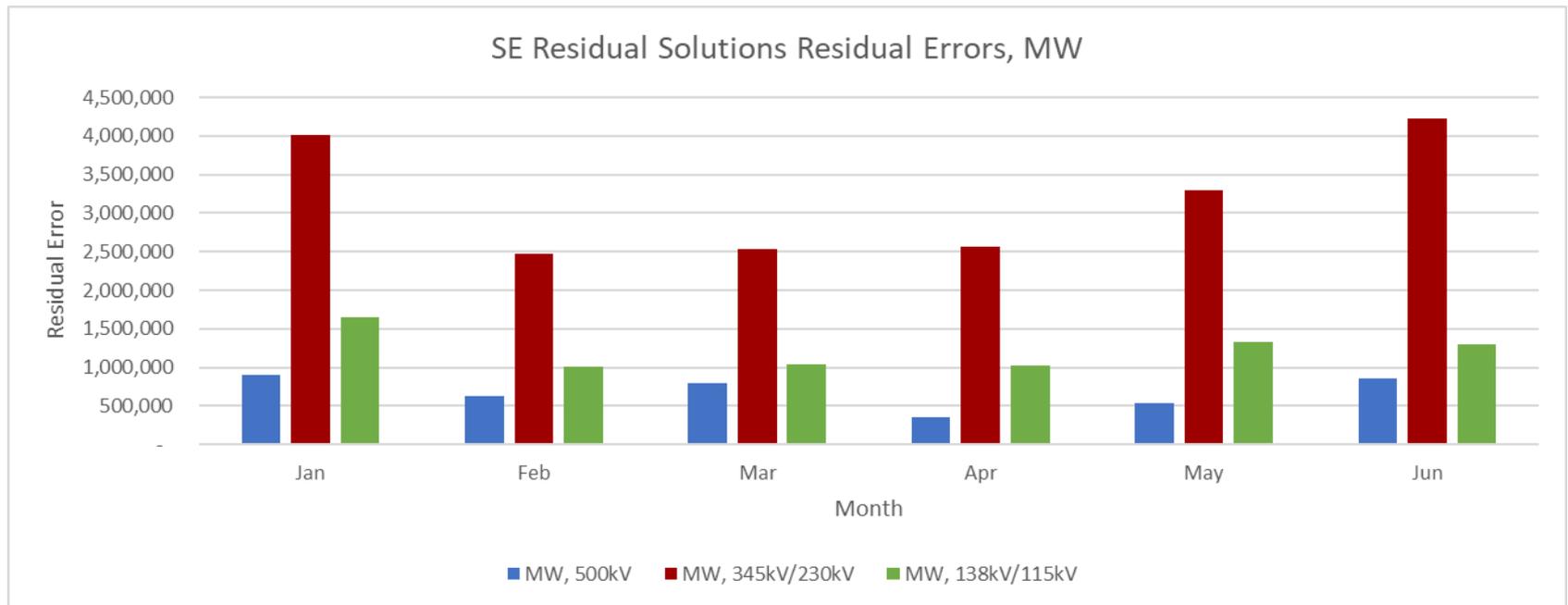
# RC Procedures Update - continued

## Upcoming Procedure Updates

Procedure No. and Title	Status	Description of changes
RC0130A SOL Exceedance Reporting Guideline	Pending further updates/Internal Coordination	Added clarification to Section 1 on RC metrics reporting when an SOL exceedance is reported after-the-fact.
RC0470 Loss of Control Center Functionality	Internal Review & Coordination	Annual Review: Minor formatting and grammar edits only.
RC0470B Evacuation and Loss of Control Center Functionality Checklists	Internal Review & Coordination	Annual Review: Minor format edits only, no content changes.
RC9000 Open Loop Procedure	Internal Review & Coordination	Annual Review: Minor formatting only, no content changes.
RC9015 Configurable Shift Factors for USFMP	Internal Coordination & Training	Initial/New Procedure
RC9030 Mitigating Forced and Inter-area Oscillations	Internal Review & Coordination	Annual Review: Minor formatting and grammar updates only.
RC9110 NW Washington Area Import IROL	Pending further updates	Section 5: Added Steps 4 and 5 for clarification of GMS notification requirements. Minor formatting throughout for clarity.
RC9120 Oregon Export IROL	Pending further updates	Section 5: Added Steps 7 and 8 for clarification of GMS notification requirements. Minor formatting throughout for clarity.

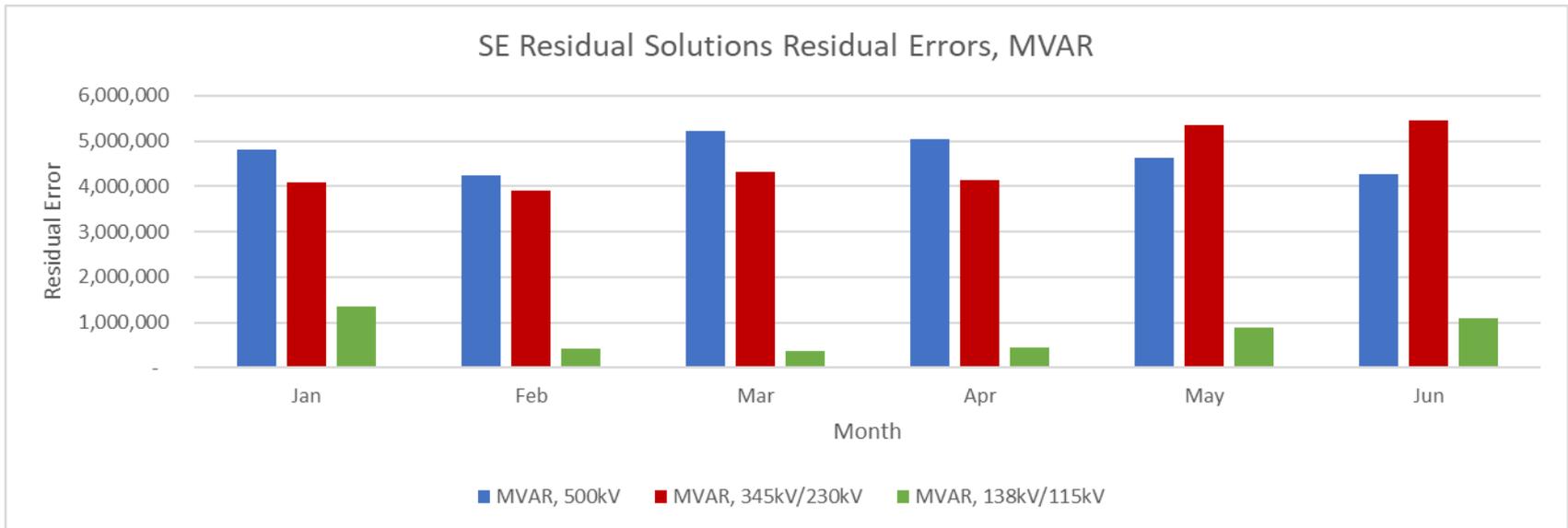
# RC Metrics Q2 2021 - State Estimator Solutions Residual Errors

- SE Residual Error – MW flow on 500kV, 345kV, 230kV, 138kV, and 115kV lines
- *Note: Residual flow is the difference between the calculated SE solution flow on each line compared to the actual telemetry value. This is a reflection of SE accuracy in RC West area.*



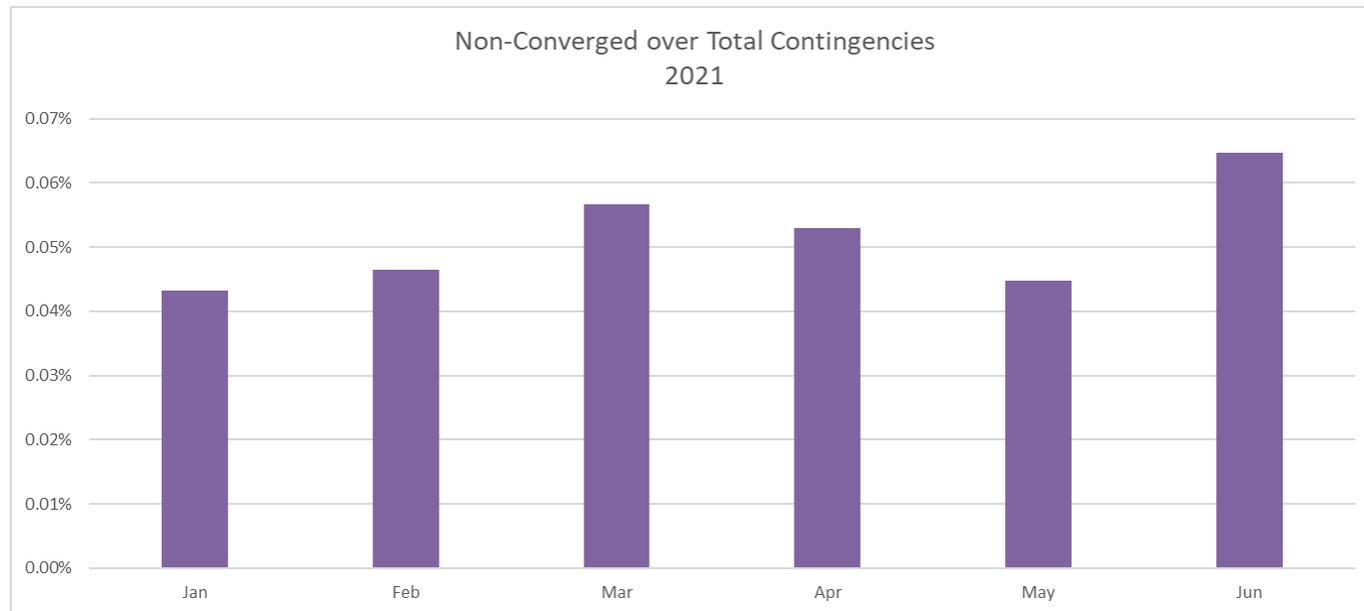
# RC Metrics Q2 2021 - State Estimator Solutions Residual Errors

- SE Residual Error – MVAR flow on 500kV, 345kV, 230kV, 138kV, and 115kV lines
- *Note: Residual flow is the difference between the calculated SE solution flow on each line compared to the actual telemetry value. This is a reflection of SE accuracy in RC West area.*



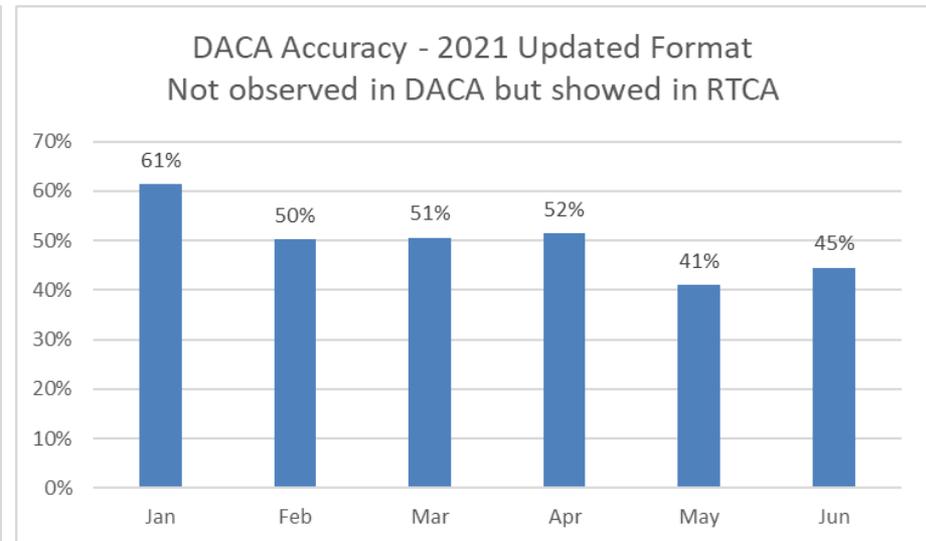
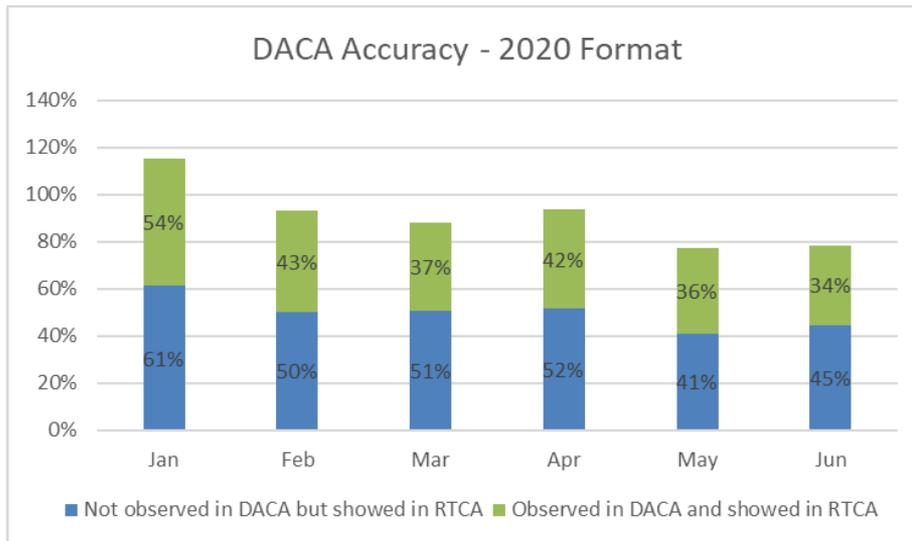
## RC Metrics Q2 2021 - RTCA Non-Converged Contingencies

- Average count of Real-Time Contingency Analysis (RTCA) non-converged contingencies in five-minute intervals divided by the total number of contingencies for that interval
- *Note: Over 8,500 contingencies are solved in every RTCA solution*



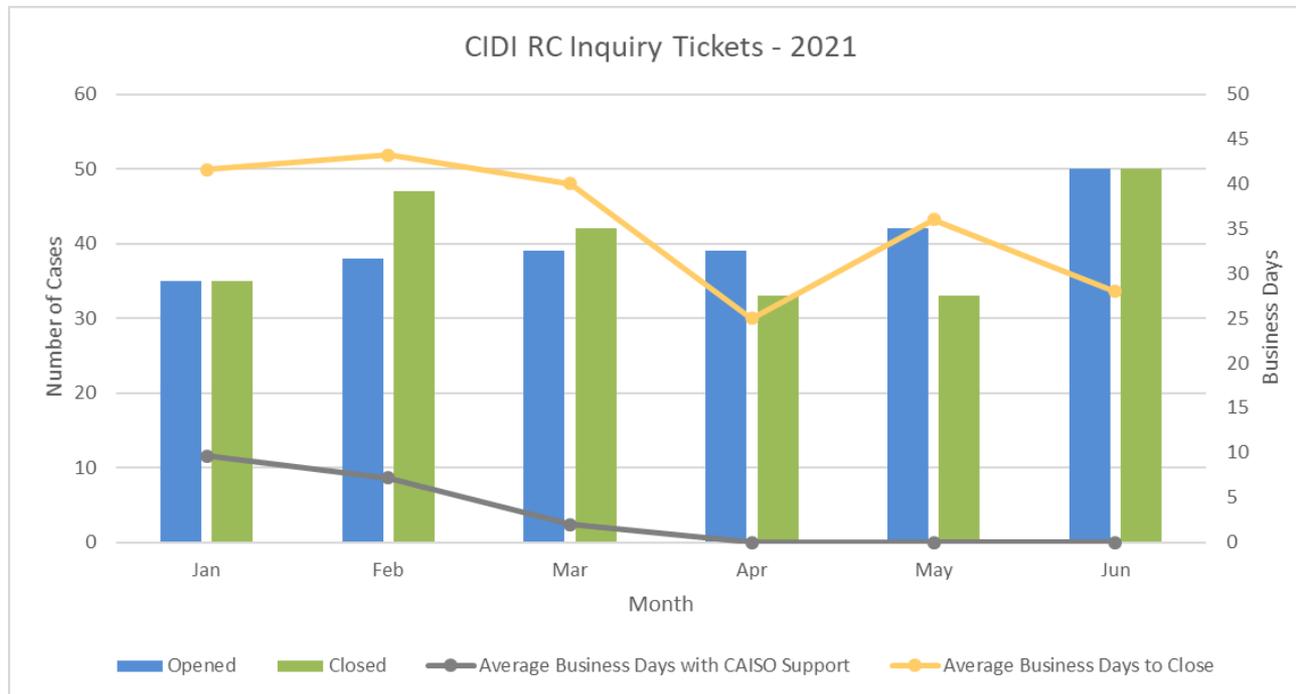
# RC Metrics Q2 2021 - DACA Accuracy

Day Ahead Contingency Analysis (DACA) tool is designed to identify potential contingencies in the day ahead timeframe



## RC Metrics Q2 2021 - CIDI/Issue Resolution Progress

- Count of Customer Inquiry and Dispute Information (CIDI) tickets of the RC Inquiry case record type
- The number of opened cases will not change each time the data is pulled, but the other numbers can change as there are still cases opened from a prior month that haven't been closed.
- The average business days with CAISO support numbers are not shown for Q2 due to an internal defect under assessment.



# Working Group Updates

# Customer Onboarding City of Redding Update

Gina Wansor  
Operations Project Coordinator, Grid Ops

# City of Redding Onboarding Update (TOP only)

Milestone	Status	Target Date of Completion
Agreements/Approvals	Completed	N/A
Network Model Updates Submission	Completed	5/27/2021
Operating Procedures	On Track	9/1/2021*
Operating Guides	N/A	N/A
Messaging Validation	On Track	8/23/21
RC Customer Integration/Data Validation	On Track	8/23/21
Network Model Updates - Production	Completed	7/21/21
Settlement Integration	Completed	N/A
Shadow Operations	On Track	8/27/2021
Executive Statement of Readiness	Completed	8/1/2021
Go-Live	On Track	9/1/2021

\*Updated to 9/1/2021 to align with effective date for procedures

For more information about RC West Onboarding and Readiness criteria, please refer to Business Practice Manual: RC Services on [www.caiso.com](http://www.caiso.com)

# Operations Planning Working Group

Aftab Alam  
Manager, Operations Planning North

# Real-Time Operations Working Group

Tim Beach  
Director, Reliability Coordination

# RTWG

## **Reviewed June heat wave event**

Reviewed Tumbleweed and Batterman Road Wildfires

Reviewed and approved New Procedure- Transmission Emergencies Due to Wildfire, RC0410B

Reviewed and Approved revision of Notification Requirements for Real Time Events- RC0130

Reviewed and Approved revision of Non-IROL Stability SOLs- RC0310A

Reviewed minor procedure updates

Frequency Response Monitoring and Mitigation Task Force

# Future Agenda Items

- The next RC West Oversight Committee meeting will be on Nov 16, 2021.
- Send topic suggestions to [rc-westoc@caiso.com](mailto:rc-westoc@caiso.com).

# Open for Public Comments

# Public Session Adjourned