



California ISO

RC West Oversight Committee

Public Session

February 27, 2020

1:00 p.m. – 2:00 p.m. Pacific

Agenda

Time:	Topic:	Presenter:
1:00 – 1:05	Welcome/agenda	Kristina Osborne – CAISO
1:05 – 1:10	Roll call	Michelle Cathcart - Chair
1:10 – 1:20	Discussion: RC West Oversight Committee chair/vice chair nominations (May election)	Members
1:20 – 1:35	Update: RC Operations <ul style="list-style-type: none"> • Upcoming working group and oversight committee meetings • Operations update • Procedures update • 2020 System Restoration Training • RC metrics 	Tricia Johnstone – CAISO Michael Martin - CAISO
1:35 – 1:50	Update: Technology <ul style="list-style-type: none"> • Full Network Model (Schedule and Accuracy) 	Mike Turner – CAISO Ankit Mishra- CAISO
1:50 – 1:55	Future agenda items	Members
1:55 - 2:00	Public comment	
	Public session adjourns	

Discussion: RC West Oversight Committee Chair/Vice Chair Nominations

Update: RC Operations

Tricia Johnstone
Director, Operations Compliance and Controls

Michael Martin
Senior Advisor, Market Operations

Upcoming WG and Oversight Committee Meetings

Working Group	Dates
Data Exchange	April 16, Sept 17
Emergency Prep. & Power System Restoration	June 17
HANA CPG	March 10, June 9, Sept 8, Dec 8
Operations Planning	Jan 23, Apr 23, Jul 23, Oct 22
Oversight Committee	Feb 27, May 12, Aug 19, Nov 10
Real-Time Operations	Jan 21, Feb 18, March 17, April 21, May 19, June 16, July 21, Aug 18, Sept 15, Oct 20, Nov 18, Dec 15
Training	Feb 6, May 7, Aug 6, Nov 12

Operations

- Mild Weather conditions – Winter peak RC Load 87,898 12/17/2019
- Oregon Export IROL
- Procedure review plan rolled out to RTWG
- Pacific Northwest conference call
- Wide-Area View Situational Task Force (WAVSA-TF)
 - Add Hoc, expect 8 month life span
 - Task force made up of RC West staff (Ops and IT) and RTWG members, scope to develop PI Vision display standards for use by RC customers.

Procedure & Guide Updates

	Title	Current Version	Effective Date	HL Description	Working Group
RC0110	Communications Protocols	2.0	1/31/2020	Annual Review: minor updates	Real Time
RC0120	Guidelines for RC West IRO-010 Data Specification and Collection	3.0	1/1/2020	Major: Updated for consistency with RC0120A; added clarity as requested for specific items	Data Exchange
RC0120A	RC IRO-010 Data Specification	3.0	1/1/2020	Major: Combined some requirements and updated for clarity on applicability, frequency and cross references to supporting documents	Data Exchange
RC0320	Outage Review and Coordination	2.0	2/19/2020	Major: Changed Pacific NW call to adhoc when significant issue is identified	Real Time
RC0420	Event Reporting	1.2	12/20/2019	Minor: Updated RC West contact information & RC messaging information.	Real Time
RC0470	Loss of Control Center Functionality	3.0	12/19/2019	Annual Review: minor updates	Real Time
RC0540A	RCW WIT Schedule Change Process	1.0	12/20/2019	New: RCW BAs began using this process beginning 11/1/2019. Instructions were provided in ppt posted on WECC website > ISAS September meeting section.	WIT WG
RC0600	RC West Implementation of Common Interconnection-wide Methodology	1.0	1/1/2020	New for IRO-002-5 WECC regional variance	RC-RC, Real Time
RC0600A	Western Interconnection RC Common Modeling and Monitoring Methodology	1.0	1/1/2020	New for IRO-002-5 WECC regional variance	RC-RC, Real Time

Procedure & Guide Updates

	Title	Current Version	Effective Date	HL Description	Working Group
RC9110	NW Washington Area Import IROL	1.2	1/23/2020	Minor: Updated to include BCRC coordination	Op Affected Parties
RC9230	Path 14 Operating Guide	1.0	12/13/2019	New	Op Affected Parties, Real Time
RC9310	Northern Nevada (NNEV) N-1-1 Mitigation Procedure	1.1	1/31/2020	Minor: Sections 4 & 5: Minor clarifications to indicate that the SOL time limit starts from time of validation	Op Affected Parties
RC9410	Olinda 500 kV High Voltage Mitigation	1.0	1/23/2020	New	Op Affected Parties
RC9710	El Paso Adjusted Actual Net Interchange	1.1	2/6/2020	Minor updates	Op Affected Parties

2020 System Restoration Drills

- Invitations sent out by geographic area:
 - Area A (NW): Tuesdays for 6 weeks- 6/23 to 7/28
 - Area B (SW): Wednesdays for 6 weeks- 4/22 to 5/27
 - Area C (CA): Fridays for 6 weeks- 4/24 to 5/29
- TOPs participate in at least 2 of the 6 drills offered
- Train the Trainer sessions
- Coordinating invitations with adjacent RCs
- Discussing 2021 calendar

2020 GOP Restoration exercises

- Requested TOP feedback to improve GOP involvement during drills
- Offering both the restoration drill and GOP exercise options
- GOP can participate in one or the other to meet their compliance
 - *If GOPs plan to attend area drill, must also coordinate with their TOP.*
- GOP exercise dates:
 - Friday, March 13
 - Wednesday, September 16
 - Time: 09:00 – 11:00 Pacific

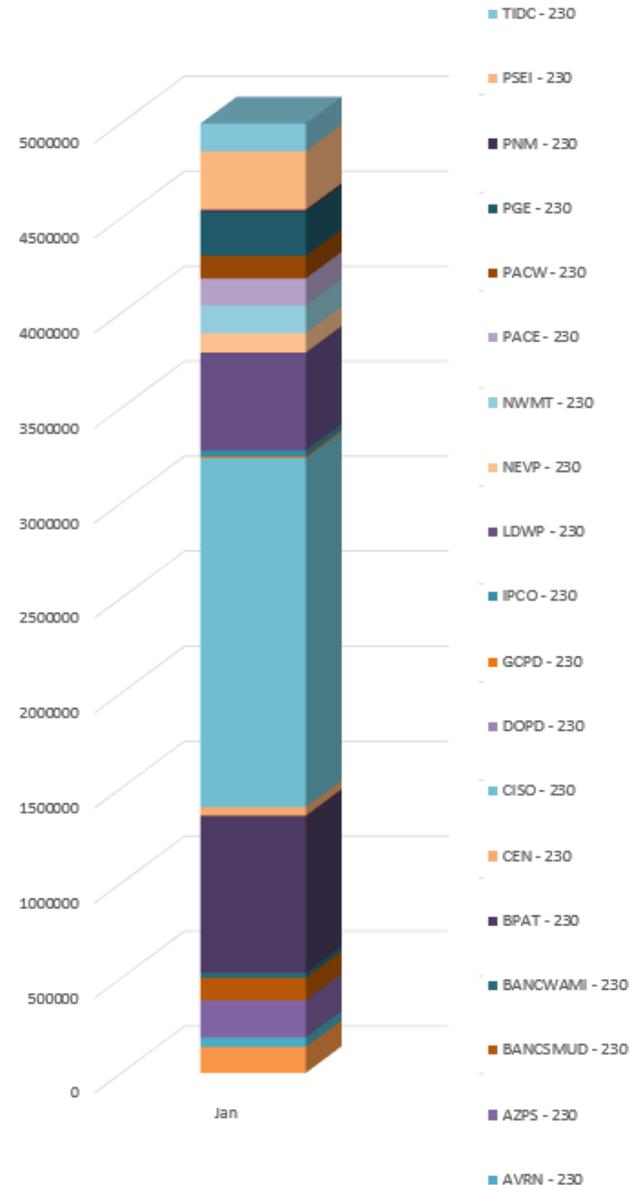
RC West Metrics - Overview

- Three types of metrics:
 - Metrics for enhanced reliability services similar to Peak's
 - Metrics for data input quality based on IRO-010 data requirements to support RC services
 - Metrics for internal RC West that measure the cross-department performance of the RC Operator, Operations Engineer and the IT Professional and IT computer systems
 - Metrics are designed to reflect positively as human and computer system processes improve, and negatively if performance declines
- 2020 will be a year of baselining measures

RC Metrics Update

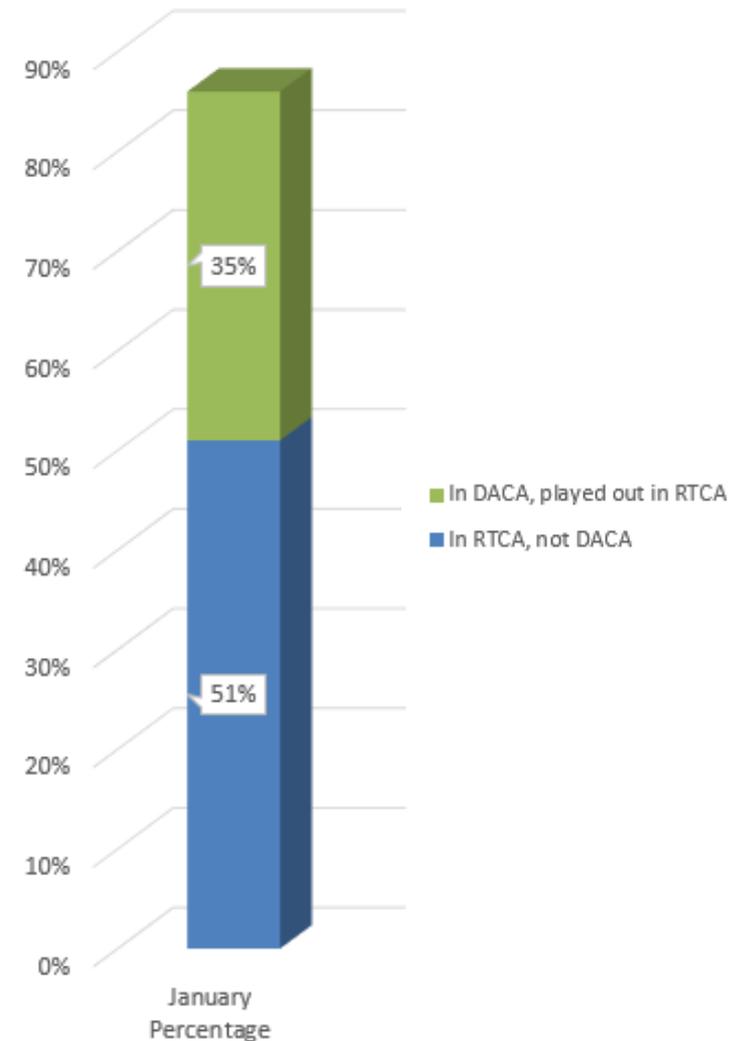
- SE MW residual error
 - Measurement of the sum of residual MW flow on 230kV facilities every hour for the month of January, 2020

Note: Residual flow is the difference between the calculated SE solution flow on each line compared to the actual telemetry value.



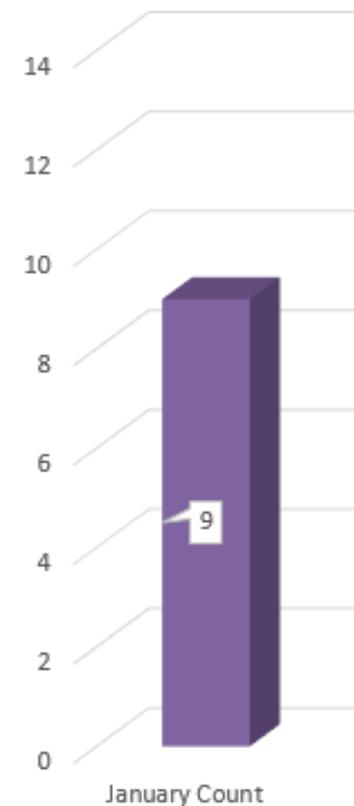
RC Metrics Update

- Next day study – DACA accuracy
 - Percentage of RTCA contingencies identified in DACA where 24 hourly DACA snapshots are compared to every five-minute RTCA run.



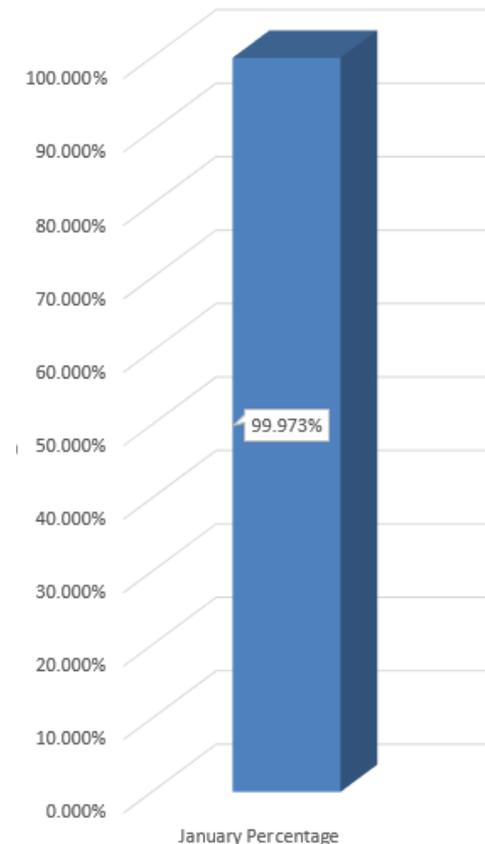
RC Metrics Update

- RTCA non-converged contingencies
 - Of approximately 8,400 contingencies solved in every RTCA solution, the average number non-converged contingencies for January 2020 equals nine (9).



RC Metrics Update

- RTCA solution success (convergence)
 - Percentage of five-minute (288 daily intervals) solved: 99.973%
 - Consecutive failures over 30-minutes: January 25th, 2020 03:05 to 04:10



Update: Technology

Mike Turner
Sr. Manager, Model and Contract Implementation

Ankit Mishra
Sr. Advisor, EMS Information Technology

Full Network Model Schedule - 2020

FNM Label	Customer Model Document Submission Deadline	ISO Publishes Final Scope	Production Deployment
20M3	N/A ¹	N/A ¹	Week of 3/16/2020
20M4	2/14/2020	2/21/2020	Week of 4/20/2020
20M6	2/28/2020	3/20/2020	Week of 6/1/2020
20M7	4/17/2020	5/8/2020	Week of 7/6/2020
20M8	5/22/2020	6/12/2020	Week of 8/10/2020
20M9	6/26/2020	7/17/2020	Week of 9/14/2020
20M10	7/31/2020	8/21/2020	Week of 10/19/2020
20M12	9/11/2020	10/2/2020	Week of 12/7/2020

Full Network Model Accuracy

- Working with entities in validating the critical network model data
 - Default switch positions
 - Voltage regulation set points
 - Tap changer modeling
- Additional ICCP data mapping
- Existing ICCP data validation

Future Agenda Items

- Determine agenda topics for next public session on May 12, 2020 (in-person and webinar)

Note: Stakeholders can submit agenda topic suggestions for upcoming meetings. Submit to <https://www.surveymonkey.com/r/RCWOCagenda> at least two weeks prior to the next public meeting. Topics may or may not be discussed.

Public Comment

Public Session Adjourned