



Reliability Subcommittee (RSC)

Carmel, IN

February 27, 2025

10:00 am – 1:23 pm ET / 9:00 am – 12:23 pm CT

Dial-in and Webex information available at www.misoenergy.org

Minutes

1. Administrative Items (Ray McCausland) Public Meeting Announcement

a. Call to Order / Roll Call

The meeting was called to order at 10:00am ET/9:00am CT.

The Public Meeting Announcement and Meeting Management process were referenced.

Chair: Ray McCausland

Vice Chair: Eric Barry

MISO Liaison: John Harmon

Stakeholder Relations: Jane Laskowski-Hart, Madison Thompson

Participants:

Adam Renfandt, ND PSC	Derek Mosolf , GRE	Luis de la Mora,
Amber Joyce, MDU	DeWayne Todd	STROMPOWER
Andrew Ford , GDS	Don Workman, DUKE	Maggie Kristian,
Andrew Kienitz, MNP	Dylan Stockert, MDU	NATIONALGRID
Anita Collier, ACES	Emily McClure, IL PSC	Marcus Sabo, ITC
Annie Dellva, XCEL	Eric Barry, XCEL	Mark Price, DC-ENERGY
Art Iler, IN OUCC	Eric Thoms, INVENERGY	Meghan Ross, ITC
Aydrik Schuh, MDU	Frederick Salvo, BAKERDONELSON	Michael Ryan, GRE
Bill Booth , MICHAELBEST	Gabe Kainz, OTP	Michael Saer, GRE
Bill.Vanderlaan, IL PSC	Gail A. Elliott, ITC	Mike Fischette, LBWL
Bob German, DTE	Gayan Wijeweera, MB	Mike Samson, DTE
Brad Larson, ATC	HYDRO	Mike Sutter , MIDAMERICAN
Brad Pope, MISOSTATES	Gertrude Rivera, ENTERGY	Nick Schroeder, MGE
Brian Drumm, ITC	Hankins, Chad, NEXTERA	Nilesh Gowalani,
Brian Gibson,	Hannah McCorry, IL PSC	NEWPROJECTMEDIA
MIDAMERICAN	Heidi Ratz, PATTERNENERGY	Noel Darce,
Bridget Sparks, AES	Jacob Strauss, MN PSC	STONEPIGMAN
Bruce Bleiweis,	Jake Chapman , LA PSC	Paola CaroOchoa, NEW
BNENERGYADVISOR	Jason Cox, EQENERGYADVISORS	GRID
Jason Burki, ALLIANT	Jason Mazigian, BEPC	Pablo Ruiz , NEWGRID
Charles Robling, IMEA	Jay Rasmussen, DUKE	Peg Abbadini, HE
Chris Bellefy, MNPOWER	Jeff Baker, DUKE	Ray McCausland, AMEREN
Chris Miller, FERC	Jeff Kelley, NIPSCO	Robert Fox, NIPSCO
Chris Norton,	Jeff Wernert, THEPRIMEGROUPLLC	Robert Frank, ND PSC
AMPPARTNERS	Jeremi Wofford, AMEREN	Robert Vosberg , LA PSC
Chris Plante, WEC	Jeremy Caron, GPISD	Roberto Paliza,
Collin Howe,	Jeremy Jones, ENTERGY	PALIZACONSULTING
DANSKECOMMODITIES	Jessica Burdette, MN PSC	Ryan Lovan , IA IUC
Cynthia Hammarlund, CES	John Borgmeyer, MO PSC	Ryan Lowe, MB HYDRO
Dan Martin, DLP	Jordan McClellan,	Ryan Wilhelmus,
Danielle Daugherty, RFIRST	SIPOWER	BIGRIVERS
Darrell Newcomer, CMS	Josh Byrnes, IA IUB	Ryan Yeoman, MI PSC
Darren Kearney, SD PSC	Justin Stewart, Ameren	Sam Benson, MN PSC
Dave Harlan, VERIQUEST	Ken Kagy, CFUNET	Sawyer McClure, WPSCI
David Davis, APEX	Laura Baker, SMXBLAW	Shelby Leisz, AES
David Johnston, URC IN	Laura Hannah, GRID	Spencer, Craig, ALLIANT
David Sapper,	UNITED	Stacee Dunbar, LUS
CLEANGRIDALLIANCE	Lise Trudeau, MN PSC	Steven Leovy, WPPI
David Savage, URC IN		Stewart Dover, LUS
David Shaffer, DENTONS		Terry Jarrett, HEALY LAW
David Webb, ENTERGY		Terry Volkmann, GLP
Derek Mosolf, GRE		

● Post Only

√ Potential Voting Item

^ Feedback Requested

* Verbal Report



Thomas Chamberlain,
ENTERGY
TJ Cochran, AMEREN
Tom Siegrist, SMXBLAW
Tyler Bergman, CLEANGRID

Valy Goepfrich, WPPI
Vince Vandaveer, AMEREN
Walt Ullrich, GRE
Warren Hess, CMPAS
Windy Beck, DSCEJ

Yasmine Abdennadher,
NEWGRID
Yichun Shi, SESCOLLC
Zachary Callen, IL PSC

b. Review Agenda

The agenda was reviewed and accepted as posted.

c. Review Meeting Minutes / Action Items

The minutes were reviewed and accepted as posted. One action item from January 23 is open.

Action Item	Owner	Date	Status
MISO will review the reconfiguration posting process and determine if proposed reconfigurations can be posted while they are being evaluated.	Jordan Cole	1/23/2025	Open
Revise slides for Item 6 and repost.	Stakeholder Relations	1/23/2025	Closed

d. Management Plan

The Management Plan was reviewed and accepted as posted.

e. ROWG-Closed Annual Charter and Management Plan Approval ✓

Motions and seconds were made to approve the ROWG Closed 2025 Charter and Management Plan, and they were approved by general consent. The documents will be forwarded to the Steering Committee for approval (see action items below).

2. Status Updates (Ray McCausland)

a. Steering Committee Update

The next meeting is March 12.

b. Reliable Operations Working Group – Closed (ROWG-CLOSED) Update

The next ROWG Closed meeting is May 15.

c. Operations Training User Group (OTUG) Update

The next OTUG meeting is May 20.

d. Reconfiguration for Congestion Cost Update

This report is provided in the Item 05 presentation—see Item 05 below.

3. Liaison Report (John Harmon)

- Operations Monthly Update (January 2025)** – Mr. Harmon provided an overview of load, performance, and highlights of notable days from the Operations Monthly Report for January 2025. MISO's reliability, markets, and operational functions performed as expected in January. An all-time Solar peak was set on January 20. Contact: John Harmon (jharmon@misoenergy.org)

- March MISO BOD/AC Week Registration Reminder** – The March BOD/AC week is scheduled for March 11-13 at the Westin New Orleans – New Orleans, LA. Please note the March 3 Hotel registration deadline in person attendance. Contact: Stakeholder Relations (stakeholderrelations@misoenergy.org)

- MISO Website Redesign Survey** — Visitors to the MISO Website may receive a pop-up survey during February and March, which will take less than 1 minute to complete.

- GridEx VIII scheduled for November 18-19** — Registration is now open for planners on the E-ISAC portal at GridEx@eisac.com. Contact: Ben Esterline (Gridex@misoenergy.org)

- Futures Redesign Workshop Scheduled for February 28** — The workshop is



designed to engage stakeholders in discussion of the re-issuance of a series of core, long-term resource and load outlooks (Future scenarios). Contact: RaeLynn Asah (rasah@misoenergy.org)

- **Annual Customer Survey starts March 18** — Survey will be available March 18 – April 8, 2025. Contact: MISO Help Desk (help@misoenergy.org)
- **Customer Readiness Symposium (CRS) Scheduled for March 19** — The Customer Readiness Symposium (CRS) is a quarterly meeting that provides a look into the future of MISO's applications, projects and services. Contact: [MISO Help Center](#)
- **2025 MISO Weather Drills Scheduled** — Registration for spring drills is now live in the MISO Learning Center and will last until two weeks prior to the start of training. Late registrations will not be accepted. Contact: MISO Tech Training (MISO-TechTraining@misoenergy.org)
- **Uninstructed Deviation Enhancement (UDE) Flag Q&A Workshop Scheduled for April 22** — The purpose of this workshop is to engage stakeholders in discussion and answer questions about the Uninstructed Deviation Enhancement (UDE) Flag. Contact: Tammy Wiggins (tawiggins@misoenergy.org)

4. Regulatory Compliance Update (Kirsten Rowley)

MISO provided the standard update on the status of FERC, NERC, NAESB activities, upcoming enforcement dates, and conferences and webinars.

5. Reconfiguration for Congestion Cost Update (Jordan Cole)

MISO provided an update on the Reconfiguration for Congestion Cost process, noting that 2024 implemented economic reconfigurations resulted in \$21M in market benefits and the majority of implemented reconfigurations addressed outage related congestion. The 2024 success rate of submitted requests was 24% (5 approved and implemented).

MISO presented Topology Optimization as a method to integrate economic efficiency with MISO's reliability focus and demonstrated how this is applied in the economic reconfiguration process. MISO also listed continued improvements on market transparency and reviewed several economic reconfiguration case studies.

In addition, MISO provided the Top 10 congested cost restraints from January 14 – February 18, 2025, noting there was a large congestion increase from January 19-23 during Winter Storm Enzo.

In the future, MISO will review how to continuously improve the reconfiguration process.

Stakeholders suggested it would be helpful to see a megawatts of relief in addition to dollar market benefit in future reports.

6. 20250227 RSC Item 06 Operating Guide Information Classification (RSC-2021-1) (Steve Leovy, WPPI)

WPPI presented their argument against closing Issue RSC-2021-1, listing the benefits to Operating Guide transparency, and noting that some of the other RTOs appear to post similar information. WPPI suggested possible resolutions for RSC-2021-1, including removing proprietary MP information and posting remainder to CEII-protected page.

In their posted motion, WPPI moved that "The Reliability Subcommittee supports keeping the Operating Guide Information Classification Issue (RSC-2021-1) open (inactive)."

The motion was seconded. Stakeholders requested to vote by email, and an email ballot will go out following the meeting (see action items).

7. MISO Monthly Operations Report^ (Patti Grattenthaler)

MISO initiated the annual Stakeholder review process for the Monthly Operations Report, noting that the Monthly Operations Report has provided an overall state of MISO's monthly markets and operations



performance and outcomes for many years. MISO is focusing on targeted, value-added information, streamlined processes, and effective communication to provide continued value to Stakeholders in this year's review. With that in mind, Stakeholders are asked to provide feedback on the value, format, and content of MISO's Monthly Operations Report in reporting and communicating market and operations performance. Feedback is due March 14. An action item was taken to send out the feedback notice following the RSC meeting (see action items).

MISO expects to return in April to present their response to feedback received and make recommendations for changes/improvements to the Monthly Operations Report.

8. FERC Order 881 Update (RSC-2018-54A) (Brian Kiefer)

MISO provided an update on FERC Order 881 – Ambient Adjusted Ratings (RSC-2018-54A), noting that MISO will request an extension until December 2028 for Order 881 compliance.

MISO listed a summary of progress to date including working on the design and building of Order 881 components, and collaboration with the Linux Foundation as well as TOs and other RCs.

MISO shared challenges to meeting the original 2025 filing deadline, reported information gathered from a TO survey conducted earlier this year, and demonstrated that its Order 881 timeline expects full compliance in 2028.

Next steps include: filing the extension in March with a response expected in May; continued management of vendors and collaboration with TOs to set operational compliance dates; and updating Stakeholders and regulators of compliance dates.

An action item was taken to add a quarterly Order 881 update to the management plan (see action items).

9. Uncertainty Management Update (Jason Howard)

MISO provided an update on uncertainty management, noting that developments in this continuing process have had positive impacts on reliable operations through the winter, the next uncertainty model continues to undergo improvements based on 2024 experiences, dynamic regulation and ramp requirements are being developed, and the Uncertainty Platform Phase I build has started and is on track for its Phase 1 milestones. In addition, the Capacity Sufficiency Analysis Tool continues to be improved to adapt in conjunction with changing operating conditions.

10. Uninstructed Deviation Enhancement (MSC-2024-7) (John Harmon)

MISO provided clarity on intent and implementation details of the Uninstructed Deviation Enhancement (UDE) Flag, emphasizing that the Flag indicates the reason the five minute Setpoint Instruction should be followed for reliability by Generation Resources, that a Reason Code will also be communicated via ICCP with rationale of why the Flag = 1, and that this enhancement does not require Tariff changes.

MISO explained that the UDE Flag is an interim step, and once the Flag is implemented, this new data will be gathered and combined with Setpoint following performance data to potentially inform revisions to the settlement rules provided in the Tariff. MISO also provided a summary of UDE Flag and reason codes, along with detailed descriptions of the reason codes.

MISO expects the UDE Flag to "go live" by approximately June 1.

11. New Business (All)

There was no new business.



12. Action Items (Jane Laskowski-Hart)

Action Item	Owner	Date	Status
Forward the ROWG Closed 2025 Charter and Management Plan to the Steering Committee for approval.	Stakeholder Relations	2/27/2025	Closed
Send out Email Ballot for motion "The Reliability Subcommittee supports keeping the Operating Guide Information Classification Issue (RSC-2021-1) open (inactive)."	Stakeholder Relations	2/27/2025	Closed
Send out Monthly Ops Report feedback request notice.	Stakeholder Relations	2/27/2025	Closed
Order 881 quarterly update added to the management plan.	Stakeholder Relations	2/27/2025	Closed

13. Adjournment

The meeting adjourned at 1:23 pm ET / 12:23 pm CT.

Next RSC Meeting: April 17, 2025 (In Person)