



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
Amber Joyce, MDU
Andrew Ford, GDS
Andrew Kienitz, MNP
Anita Collier, ACES
Annie Dellva, XCEL
Art Iler, IN OUCC
Aydrik Schuh, MDU
Bill Booth, MICHAELBEST
Bill Vanderlaan, IL PSC
Bob German, DTE
Brad Larson, ATC
Brad Pope, MISOSTATES
Brian Drumm, ITC
Brian Gibson, MIDAMERICAN
Bridget Sparks, AES
Bruce Bleiweis, BNENERGYADVISOR
Jason Burki, ALLIANT
Charles Robling, IMEA
Chris Bellefy, MNPOWER
Chris Miller, FERC
Chris Norton, AMPPARTNERS
Chris Plante, WEC
Collin Howe, DANSKECOMMODITIES
Cynthia Hammarlund, CES
Dan Martin, DLP
Danielle Daugherty, RFIRST
Darrell Newcomer, CMS
Darren Kearney, SD PSC
Dave Harlan, VERIQUEST
David Davis, APEX
David Johnston, URC IN
David Sapper, CLEANGRIDALLIANCE
David Savage, URC IN
David Shaffer, DENTONS
David Webb, ENTERGY
Derek Mosolf, GRE

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DeWayne Todd
Don Workman, DUKE
Dylan Stockert, MDU
Emily McClure, IL PSC
Eric Barry, XCEL
Eric Thoms, INVENERGY
Frederick Salvo, BAKERDONELSON
Gabe Kainz, OTP
Gail A. Elliott, ITC
Gayan Wijeweera, MB HYDRO
Gertrude Rivera, ENTERGY
Hankins, Chad, NEXTERA
Hannah McCorry, IL PSC
Heidi Ratz, PATTERNENERGY
Jacob Strauss, MN PSC
Jake Chapman, LA PSC
Jason Cox, EQENERGYADVISORS
Jason Mazigian, BEPC
Jay Rasmussen, DUKE
Jeff Baker, DUKE
Jeff Kelley, NIPSCO
Jeff Wernert, THEPRIMEGROUPLLC
Jeremi Wofford, AMEREN
Jeremy Caron, GPISD
Jeremy Jones, ENTERGY
Jessica Burdette, MN PSC
John Borgmeyer, MO PSC
Jordan McClellan, SIPOWER
Josh Byrnes, IA IUB
Justin Stewart, Ameren
Ken Kagy, CFUNET
Laura Baker, SMXBLAW
Laura Hannah, GRID UNITED
Lise Trudeau, MN PSC

Luis de la Mora, STROMPOWER
Maggie Kristian, NATIONALGRID
Marcus Sabo, ITC
Mark Price, DC-ENERGY
Meghan Ross, ITC
Michael Ryan, GRE
Michael Saer, GRE
Mike Fischette, LBWL
Mike Samson, DTE
Mike Sutter, MIDAMERICAN
Nick Schroeder, MGE
Nilesh Goyalani, NEWPROJECTMEDIA
Noel Darce, STONEPIGMAN
Paola CaroOchoa, NEW GRID
Pablo Ruiz, NEWGRID
Peg Abbadini, HE
Ray McCausland, AMEREN
Robert Fox, NIPSCO
Robert Frank, ND PSC
Robert Vosberg, LA PSC
Roberto Paliza, PALIZACONSULTING
Ryan Lohan, IA IUC
Ryan Lowe, MB HYDRO
Ryan Wilhelmus, BIGRIVERS
Ryan Yeoman, MI PSC
Sam Benson, MN PSC
Sawyer McClure, WPSCI
Shelby Leisz, AES
Spencer, Craig, ALLIANT
Stacey Dunbar, LUS
Steven Leovy, WPPI
Stewart Dover, LUS
Terry Jarrett, HEALY LAW
Terry Volkmann, GLP

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√ 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 2024)** – Mr. Harmon provided an overview of load, performance, and highlights of notable days from the Operations Monthly Report for January 2024. 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

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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

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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)

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