



## Entity Management Plan

Committee: Reliability Subcommittee (RSC)

Reports to: Advisory Committee

Chair: Ray McCausland

MISO Liaison: JT Smith

Vice Chair: Todd Sarkinen

Last Update: [October 19, 2021](#)

### General Information:

How many meetings were held in 2020? 10

What is the average number of total participants in 2020? 118

### Rationale for Existence:

The Reliability Subcommittee will provide a forum to discuss issues within the context of the MISO tariff, Transmission Owner Agreement, Amended Balancing Authority Agreement, MISO seams agreements, NERC Reliability Standards, applicable Regional Standards, and other applicable documents for direction on implementation and maintenance of reliability and tariff administration functions at MISO within the MISO footprint and between MISO and adjacent areas.

The purpose of the Reliability Subcommittee is for members to advise, guide, and provide recommendations for decision making in areas affecting reliability. Examples include, but are not limited to:

- Coordination Agreements
- MISO reliability policies, processes, and procedures
- NERC Reliability Standards and Standards Development Collaboration
- MISO's Operational Performance and Reliability Metrics
- MISO Tariff and Business Practice Manuals
- Event Analysis Results
- Compliance activities
- Market Processes

The Reliability Subcommittee will form, disband and direct its respective working groups and task forces as per the Stakeholder Governance Guide.

### Ongoing Tasks

*Routine work considered on an as-needed basis:*

- Subgroup Status Reports
- Operations Metric Updates
- Standards and Compliance Updates
- Gas/Electric
- Distributed Energy Resources, Modeling and Impacts

### Quarter 1 2021

*Planned tasks for the quarter:*

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January 28	– COVID-19 Update
	– Annual Charter and Management Plan Review and Approval <sup>√</sup>
	– FERC Update
	– Resource Availability and Need (RAN) Update (IR025)
	– Firm Flow Entitlement (FFE) Methodology Updates (Freeze Date Project)
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| February 25 | <ul style="list-style-type: none"><li>- COVID-19 Update</li><li>- ROWG-Closed Annual Charter and Management Plan Approval ✓</li><li>- SRRTWG Annual Charter/Management Plan Review and Approval ✓</li><li>- Grid Ex VI Planning Update</li><li>- CIP-012 Project Discussion: Network Upgrade Member WAN Project</li><li>- Review NERC Lessons Learned - February</li><li>- Updates to demand response Tools (IR049)</li><li>- Available Maximum Emergency (AME)</li><li>- Consider on-going need/value of Generator Winterization and Annual Gas Fuel Surveys</li><li>- Generation Outage Process Review (CROW approval timeline)</li><li>- NERC GOP Frequency Response Survey Update</li><li>- Operating Guide Information Classification (RSC-2021-1)</li><li>- Max Gen by Subregion Discussion (Monthly Ops Reports)</li></ul> |
| March       | <ul style="list-style-type: none"><li>- No Meeting</li></ul>  |
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### Quarter 2 2021

#### Planned tasks for the quarter:

- Outage scheduling approval updates

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| April 1 | <ul style="list-style-type: none"><li>- COVID-19 Update</li><li>- Short Term Reserve Update</li><li>- FERC Update</li><li>- Hurricane Readiness</li><li>- Power System Restoration Drill</li><li>- Winter Review and Lessons Learned</li><li>- RSC-2018-54A Application of Forecasted and Real-time Ambient Adjusted Ratings</li><li>- MISO response to FERC NOPR on Ambient Adjusted Ratings (AAR)</li><li>- Generator Winterization and Annual Gas Fuel Surveys</li><li>- Operating Guide Information Classification (RSC-2021-1)</li><li>- Arctic Weather Event</li></ul> |
| May 6   | <ul style="list-style-type: none"><li>- COVID-19 Update</li><li>- Review NERC Lessons Learned – May (Verification of AC Quantities during Protection System Design and Commissioning)</li><li>- Summer Assessment</li><li>- Resource Availability and Need (RAN) Update (IR025)</li><li>- Update on RAN related discussions at the RASC</li><li>- CROW Updates</li><li>- GridEx VI Update</li><li>- Update to demand response deployment tools (IR049)</li></ul>   |
| June 3  | <ul style="list-style-type: none"><li>- COVID-19 Update</li><li>- Improve Access to Available Maximum Emergency (AME) (RSC-2021-2)</li><li>- April 21<sup>st</sup> Extreme Ramp Event</li><li>- Application of Forecasted and Real-time Ambient Adjusted Ratings (RSC-2018-54A)</li></ul>  |
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### Quarter 3 2021

*Planned tasks for the quarter:*

- Operating Guide Information Classification (RSC-2021-1)
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| July 29 | <ul style="list-style-type: none"><li>- Resource Availability and Need (RAN) Update (IR025)</li><li>- CIP-012 Project Discussion: Network Upgrade Member WAN Project</li><li>- Updates to demand response Tools (IR049)</li><li>- Emergency Line Rating Use and Methodologies (RSC-2021-54B)</li><li>- Review of Max Gen Event – June 10</li><li>- Generation Outage Process Review</li><li>-</li><li>-</li></ul> |
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| August 26 | <ul style="list-style-type: none"><li>- Meeting Cancelled</li><li>-</li></ul> |
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| September 30 | <ul style="list-style-type: none"><li>- FERC Update</li><li>- Summer Review and Fall Projection</li><li>- Short Term Reserves</li><li>- Resource Availability and Need (RAN) Update (IR025)</li><li>- Review NERC Lessons Learned - (Cold Weather Operation of SF6 Circuit Breakers)</li><li>- MISO Congestion Management Process (MSC/RSC Action Item)</li><li>- Application of Forecasted and Real-time Ambient Adjusted Ratings (RSC-2018-54A)</li><li>- Order 2222 Distributed Energy Resources</li><li>- SRRTWG Survey Results</li><li>- New Operator Interface Design and Functionality (MCS Rewrite)</li><li>- Hurricane Ida Overview</li><li>- Cold Weather Standards</li></ul> |
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### Quarter 4 2021

*Planned tasks for the quarter:*

- ~~FERC Update~~
- ~~Operating Guide Information Classification (RSC-2021-1)~~
- ~~Capacity Emergency Procedure—Order of Steps (LMR/Emergency Ranges)~~
- ~~Reliability Portfolio Update~~
- ~~Parallel Flow Visualization (PFV)~~

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| October 28 | <ul style="list-style-type: none"><li>- 2022 Meeting Calendar</li><li>- Review NERC Lessons Learned - October</li><li>- Leadership Nominations</li><li>- Winter Assessment</li><li>- CIP-012 Project Discussion: Network Upgrade Member WAN Project</li><li>- Short Term Reserve Product – Status Update</li><li>- <del>Generation Stability Limitation Issues</del></li><li>- Order 2222 Distributed Energy Resources</li><li>- Improve Access to Available Maximum Emergency (AME) (RSC-2021-2) <sup>Δ</sup></li><li>- <del>Application of Forecasted and Real-time Ambient Adjusted (RSC-2018-54A)/AAR implementation</del></li><li>- <del>Parallel Flow Visualization (PFV)</del></li><li>- <del>Review 2021-2022 Generation Winterization Survey Results</del></li><li>-</li></ul> |
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November – No Meeting

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- December 10
- Leadership Election and Announcements
  - Short Term Reserve Product – Status Update
  - Power System Restoration (PSR) Drill Report
  - Locational LMRs
  - Order 2222 Distributed Energy Resources
  - Generation Outage Process Review ^
  - Resilient Operations (RSC002)
  - [FERC Update](#)
  - [Capacity Emergency Procedure – Order of Steps \(LMR/Emergency Ranges\)](#)
  - [Operating Guide Information Classification \(RSC-2021-1\)](#)
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**Quarter 1 2022**

*Planned tasks for the quarter:*

- [Generation Stability Limitation Issues](#)
- [Reliability Portfolio Update](#)
- [SRRTWG](#)
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