Resource Availability and Need (RAN)

LOLE Best Practices Working Group

August 8-9, 2019
RAN’s goal is to ensure sufficient resources are available for real-time operations

- MISO relies upon the efficient conversion of committed capacity to energy to serve near term load for all hours of the year.

- This is especially critical in light of the narrowing gap between load and resources, which have an increased occurrence of emergency operations throughout the year.

- Tightness in operating margins extends beyond summer to the shoulder months and during severe winter weather.

- This will require MISO’s processes to align assumptions and provide sufficient granularity for energy needs.
Number of occurrences for emergency operations has increased over the last three years.

Max Gen Emergencies
June 2016 - June 2019

The chart shows the number of occurrences from January 2016 to December 2019, categorized by month. The colors used are blue for 'Alert', yellow for 'Warning', and red for 'Event'.

- January: 5 Occurrences (2 Alerts, 3 Warnings)
- February: 0 Occurrences
- March: 1 Occurrence (1 Event)
- April: 3 Occurrences (1 Alert, 1 Warning, 1 Event)
- May: 1 Occurrence (1 Event)
- June: 4 Occurrences (2 Alerts, 1 Warning, 1 Event)
- July: 1 Occurrence (1 Event)
- August: 1 Occurrence (1 Event)
- September: 6 Occurrences (3 Alerts, 2 Warnings, 1 Event)
- October: 1 Occurrence (1 Event)
- November: 0 Occurrences
- December: 0 Occurrences
The RAN initiative includes near and long-term efforts needed to deliver reliable and efficient results in every hour of the year.

**PHASE 1:** Improve Resource Transparency and Performance for Spring 2019 and subsequent Planning Year

**LMRs:**
- Create transparency and better align LMR obligations to other resources

**Outage Coordination:**
- Improve forward-looking transparency for stakeholders and MISO
- Increase early outage notification and flexibility during emergencies

**PHASE 2:** Continued refinements for 2020 PRA, progress on market based solution

**PRA Inputs:**
- Improve Planning Resource Auction (PRA) inputs, focusing on improved LMR modeling

**PHASE 3:** Improved availability and flexibility *

**Resource Accreditation:**
- Match with total availability

**Seasonal Resource Adequacy:**
- Reflect risks throughout year

**“Multi-Day” Operating Horizon:**
- Improve visibility and market incentives

FILED DEC 2018 / JAN 2019
APPROVED FEB/MAR 2019
IMPLEMENT 2019

No filing required
IMPLEMENT 2020

Staged filings, beginning with accreditation as early as Q1-Q2 2020

* Examples based on currently identified issues and potential solutions
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