

OMS RA Summit

Astrapé Consulting

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Evolving Nature of RA Requirements

- **Is the 1-day-in-10-years requirement sufficient?**
- **Why re-evaluate?**
 - Resource mix changes
 - Renewables make load shed events shorter
 - Storage makes load shed events longer
 - Shifts in seasonal reliability
 - Winter EUE at 0.1 is 5x summer EUE at 0.1 LOLE
- **Supplemental reliability metrics**
 - Normalized EUE of 1-3ppm
 - Max depth of EUE (10% of load?)
 - Max duration of load shed (12 hours?)

Key Reliability Risks

- **Correlated Outages**
- **Extreme Weather**
- **Load Growth**
- **Conventional Retirements**
- **Energy Adequacy**
 - Fuel supply
 - Storage exhaustion
- **Transmission Capability**

SERVM Enhancements

- **Planned maintenance scheduling**
- **Storage modeling to improve alignment between reliability contribution and accreditation**
- **Transmission model interface capabilities**
- **Extreme weather**

Individual Entity, Individual State Planning as Members of MISO

- **Different state goals, different entity goals will lead to faster or slower renewable and storage build-out trajectories**
- **Benefits of participating in MISO include diversity of weather and diversity of unit performance**
- **Alignment and understanding of assumptions/modeling methods is critical for entities to plan**
 - MISO committed in its DLOL filing to provide more data transparency
 - Aggregated, masked, and class average data for any confidential data
 - Provide the ability for individual entities to “run the models and replicate accreditation values”