



Minutes of the Reliability Advisory Council Meeting

InterContinental Kansas City at the Plaza

May 19, 2022, 8:01 a.m. to 11:56 a.m. Central

Notice for this meeting was electronically posted to the MRO website on April 21, 2022. A final agenda, including advanced reading materials, was also posted on May 12, 2022.

1. Call to Order and Determination of Quorum

The Reliability Advisory Council (RAC) Chair, Dick Pursley called the meeting to order at 8:01 a.m. Reliability Analysis Administrator, Rebecca Schneider, advised the chair that a quorum of the RAC was present. A complete list of attendees is included as [Exhibit A](#).

2. Standards of Conduct and Antitrust Guidelines

Pursuant to Policy and Procedure 4, Bryan Clark, MRO Director of Reliability Analysis, highlighted MRO's Standards of Conduct, Conflict of Interest, and Antitrust Guidelines.

3. Chair's Remarks

Chair Pursley thanked the Reliability Conference planning committee for their work on this year's conference and RAC member Dallas Rowley for his efforts as the conference emcee. He also congratulated Principal Technical Advisor, John Seidel on his upcoming retirement from MRO.

4. Consent Agenda

The RAC reviewed the consent agenda, which included draft minutes from the April 6, 2022 meeting.

Upon a motion duly made and seconded, the RAC approved the consent agenda in its entirety.

5. MRO Board of Directors, OGOC and General Update

Clark provided an overview of the Board of Directors and OGOC meetings on April 6-7, 2022. He noted that the OGOC approved the RAC work plan, the new RAC and PRS members, NERC representatives recommended by the RAC, and the change to the PRS charter. The annual meeting requirement with the councils and the OGOC was discussed. A member suggested that the length and timing of the meeting with the OGOC could be improved. Discussion ensued.

6. MRO Representatives on NERC Subgroups

NERC Electric Gas Working Group (EGWG) – Jaimin Patel **No report**
NERC Inverter Based Resource Performance Subcommittee (IRPS) – David Brauch
NERC System Planning Impacts from DER Working Group (SPIDERWG) – Wayne Guttormson
NERC System Protection and Control Working Group (SPCWG) – Mark Gutzmann
NERC Energy Reliability Assessment Task Force (ERATF) – Tom Whynot

The NERC Representatives from each subgroup provided written reports to the RAC if the subgroup had met since the April 6, 2022 RAC meeting. Discussion ensued.



7. Update 2022 Work Plan

Action Item Review.

Chair Pursley reviewed the action items in the 2022 work plan. Updates were made accordingly. He noted that deadlines should be assigned to newsletter articles to keep them on track. A sub team was formed to start planning for the Cold Weather Preparedness Workshop, tentatively scheduled for October 2022. A RAC member suggested inviting a meteorologist or climatologist to participate in the workshop. Discussion ensued.

2022 Reliability Conference Debrief.

RAC member Derek Brown lead the discussion at the meeting. He thanked the planning committee, MRO staff, and the conference emcee. He noted the importance of face-to-face networking. Various presentations and themes were highlighted. Discussion ensued.

8. MISO 2022 Summer Capacity

RAC member Durgesh Manjure provided an overview of the MISO 2022 Summer Capacity. He outlined the 2022-23 Planning Resource Auction (PRA) demonstrated capacity shortfalls in MISO North and Central regions and the effect on capacity prices. The capacity shortfall was due to a decrease in accredited capacity driven by thermal retirements and the increasing transition to renewables. Discussion ensued.

9. Assessment Review

MRO Regional Summer Assessment.

MRO Principal Reliability Assessment Engineer, Salva Andiappan, provided a brief overview of the Regional Summer Assessment (RSA). He highlighted two additions to the 2022 RSA: GADS Weighted Equivalent Forced Outage Rate (WEFOR) and TADS Total Transmission Outages per 100 Circuit Miles. Andiappan will schedule a call with the RAC on June 28, 2022 to review the 2022 Long-Term Reliability Assessment (LTRA). Discussion ensued.

10. RAC Charter Review

Clark lead the discussion during the meeting. Chair Pursley recommended changing the verbiage on the RAC charter under item I. Purpose to add clarification. A redlined version will be submitted to the OGOC for approval at the next meeting in June 2022.

11. Recent Lessons Learned (NERC)

Principal Systems Protection Engineer, John Grimm lead the discussion during the meeting. Chair Pursley solicited feedback from the RAC on whether the NERC lessons learned could be highlighted as a webinar. Discussion ensued.

12. Reliability Guideline Overview

Clark lead the discussion during the meeting. He provided an overview of the NERC website showing where the Reliability Guidelines are located and asked that the RAC review them. Discussion ensued.

13. Protective Relay Subgroup Update

MRO Senior Systems Protection Engineer, Jake Bernhagen, provided an update of the Protective Relay Subgroup (PRS). He noted that a white paper on Instantaneous Ground Overcurrent is in-progress. There is a FERC/NERC PSC Program Review webinar scheduled for July 14, 2022. Bernhagen also mentioned a format change to the Q4 meeting in December to incorporate a real-time misoperations review by the PRS. Chair Pursley asked about the subgroup's interface with the Reliability and Security Technical Committee (RSTC).

14. 2022 Meeting Dates

Chair Pursley reviewed the 2022 meeting dates for the RAC, as well as the other councils and subgroups.

15. RAC Member Roundtable

Chair Pursley invited member participants to share other relevant industry observations. Topics discussed included:

- Deferments of resources
- Personnel resources (higher on the risk matrix)
- Aging workforce in the industry
- Need to promote industry at the college level
- How do you interest people in the industry?
- One-third of misoperations caused by human error
- Use of contractors for capital improvements (risk)
- Formal documentation for onboarding new employees
- Automation of manual functions to address HR shortages

16. Other Business and Adjourn

Having no further business to discuss, the meeting was adjourned at 11:56 a.m.

Prepared by: Rebecca Schneider, Reliability Analysis Administrator.

Reviewed and Submitted by: Bryan Clark, Director, Reliability Analysis



Exhibit A – Meeting Attendees

Reliability Advisory Council Members Present	
Name	Organization
Dick Pursley, Chair	Great River Energy
Jason Weiers, Vice Chair	Otter Tail Power Company
Andy Witmeier	MISO
Binod Shrestha	Saskatchewan Power Corporation
C.J. Brown	Southwest Power Pool, Inc.
Dallas Rowley	Oklahoma Gas and Electric
Derek Brown	Evergy, Inc.
Durgesh Manjure	MISO
Dwayne Stradford	American Electric Power
Gayle Nansel	Western Area Power Administration
Jeremy Severson	Basin Electric Power Cooperative
John Stephens	City Utilities of Springfield Missouri
Nandaka Jayasekara	Manitoba Hydro
Ron Gunderson	Nebraska Public Power District
W. Bryn Wilson	Oklahoma Gas & Electric
MRO Staff Present	
Name	Title
Bryan Clark	Director, Reliability Analysis
Rebecca Schneider	Reliability Analysis Administrator
Lisa Stellmaker	Executive Administrator
John Seidel	Principal Technical Advisor
Salva Andiappan	Principal Reliability Assessment Engineer
Jake Bernhagen	Senior Systems Protection Engineer



John Grimm	Principal Systems Protection Engineer
Dianlong Wang	Senior Power Systems Engineer
Max Desruisseaux	Senior Power Systems Engineer
Steen Fjalstad	Director of Security
Estee Nauer	Security Administrator
Guests	
Name	Organization
Jaimin Patel	Saskatchewan Power Corporation
Mark Gutzmann	Xcel Energy
Wayne Guttormson	Saskatchewan Power Corporation
Tom Whynot	Manitoba Hydro
Mark Eastwood	City Utilities of Springfield, MO
Russell Moore	City Utilities of Springfield, MO
Maison Bleam	Iowa Utilities Board
Mary Agnes Nimis	FERC
Terry Harbour	MidAmerican Energy Company