

# Agenda

## Project Management and Oversight Subcommittee Meeting

July 18, 2023 | 2:00–4:00 p.m. Central

Hybrid Meeting  
Midwest Reliability Organization  
380 St. Peter Street, Suite 800  
St. Paul, MN 55102

PMOS in the Oahe Room

Dial-in: 1-415-655-0002 | Access Code: 2309 871 5234 | Meeting Password: 07182023  
Click here to [Join WebEx](#)

### Introduction and Chair's Remarks

[NERC Antitrust Compliance Guidelines](#) and **Public Announcement**  
[NERC Participant Policy](#)

### Agenda Items

1. **Consent Agenda and Meeting Minutes - Approve - Mike Brytowski**
  - a. May 16, 2023 Project Management and Oversight Subcommittee Meeting Minutes\*
2. **PMOS Action Items - Review - Mike Brytowski / Ben Wu**
  - a. PMOS Action Items Review - Mike Brytowski / Ben Wu
  - b. PMOS Scope and Responsibilities - Mike Brytowski
3. **PMOS New Membership Review and Approve - Mike Brytowski / Charles Yeung**
4. **Project Tracking Spreadsheet (PTS) - Review**
  - a. 2016-02d – Modifications to CIP Standards - **Update** - Ken Lanehome / Kirk Rosener
  - b. 2017-01b – Modifications to BAL-003-1 - **Update** - Pamela Hunter / Charles Yeung
  - c. 2019-04 – Modifications to PRC-005 - **Update** - Joseph Gatten / Sarah Habriga
  - d. 2020-02 – Modifications to PRC-024 (Generator Ride-through) - **Update** - Pamela Hunter / Anthony Westenkirchner
  - e. 2020-04 – Modifications to CIP-012-1 - **Update** - Sarah Habriga / Ken Lanehome
  - f. 2020-06 – Verifications of Models and Data for Generators - **Update** - Sarah Habriga / Ellese Murphy

- g. 2021-01 – Modifications to MOD-025 and PRC-019 - **Update** - *Kirk Rosener / Ruida Shu*
- h. 2021-02 – Modifications to VAR-002-4.1 - **Update** - *Joseph Gatten / Anthony Westenkirchner*
- i. 2021-03 – Transmission Owner Control Centers (TOCC) - **Update** - *Ellese Murphy / Ken Lanehome*
- j. 2021-04b – Modifications to PRC-002-2 (Phase 2) / development of PRC-028-0 - **Update** - *Mike Brytowski / Charles Yeung*
- k. 2021-06 – Modifications to IRO-010 and TOP-003 - **Update** - *Mike Brytowski / Charles Yeung*
- l. 2021-07b – Extreme Cold Weather Grid Operations, Preparedness, and Coordination (Phase 2) - **Update** - *Mike Brytowski / Kirk Rosener*
- m. 2021-08 – Modifications to FAC-008-5 - **Update** - *Ken Lanehome / Sarah Habriga*
- n. 2022-01 – Reporting ACE - **Update** - *Claudine Fritz / Ruida Shu*
- o. 2022-02 – Modifications to TPL-001-5.1 and MOD-032-1 - **Update** - *Ellese Murphy / Terri Pyle*
- p. 2022-03 – Energy Assurance with Energy-Constrained Resources - **Update** - *Ken Lanehome / Joseph Gatten*
- q. 2022-04 – EMT Models in NERC MOD, TPL, and FAC Standards - **Update** - *Claudine Fritz / Charles Yeung*
- r. 2022-05 – Modifications to CIP-008 Reporting Threshold - **Update** - *Ellese Murphy / Ruida Shu*
- s. 2023-01 – EOP-004 IBR Event Reporting - **Update** - *Ruida Shu / Terri Pyle*
- t. 2023-02 – Performance of IBRs Standard Authorization Request - **Update** - *Terri Pyle / Claudine Fritz*
- u. 2023-03 – Internal Network Security Monitoring (INSM) - **Update** - *Ruida Shu*
- v. 2023-04 – Modifications to CIP-003 - **Update** - *Kirk Rosener*

## 5. Other

- a. PMOS liaison assignment review - *Mike Brytowski / All*
- b. Next meeting: In Person

Tuesday, September 19, 2023 from 2:00-4:00 p.m. Eastern

NERC – Washington Office  
1401 H Street N.W., Suite 410  
Washington, DC 20005

- c. Other

## 6. Adjournment

\*Background materials included.

## Public Meeting Notice

REMINDER FOR USE AT BEGINNING OF MEETINGS AND CONFERENCE CALLS THAT HAVE BEEN PUBLICLY NOTICED AND ARE OPEN TO THE PUBLIC

### **Conference call/webinar version:**

As a reminder to all participants, this webinar is public. The registration information was posted on the NERC website and widely distributed. Speakers on the call should keep in mind that the listening audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.

### **Face-to-face meeting version:**

As a reminder to all participants, this meeting is public. Notice of the meeting was posted on the NERC website and widely distributed. Participants should keep in mind that the audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.

### **For face-to-face meeting, with dial-in capability:**

As a reminder to all participants, this meeting is public. Notice of the meeting was posted on the NERC website and widely distributed. The notice included the number for dial-in participation. Participants should keep in mind that the audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.

# NERC Participant Conduct Policy

## General

Consistent with its Rules of Procedure, Bylaws, and other governing documents, NERC regularly collaborates with its members and other stakeholders to help further its mission to assure the effective and efficient reduction of risks to the reliability and security of the grid. Many NERC members and other bulk power system experts provide time and expertise to NERC, and the general public, by participating in NERC committees, subcommittees, task forces, working groups, and standard drafting teams, among other things. To ensure that NERC activities are conducted in a responsible, timely, and efficient manner, it is essential to maintain a professional and constructive work environment for all participants, including NERC staff; members of NERC committees, subcommittees, task forces, working groups, and standard drafting teams; as well as any observers of these groups. To that end, NERC has adopted the following Participant Conduct Policy (this “Policy”) for all participants engaged in NERC activities. Nothing in this Policy is intended to limit the powers of the NERC Board of Trustees or NERC management as set forth in NERC’s organizational documents, the NERC Rules of Procedure, or under applicable law. This Policy does not apply to the NERC Board of Trustees or the Member Representatives Committee.

## Participant Conduct Policy

All participants in NERC activities must conduct themselves in a professional manner at all times. This Policy includes in-person conduct and any communication, electronic or otherwise, made as a participant in NERC activities. Examples of unprofessional conduct include, but are not limited to, verbal altercations, use of abusive language, personal attacks or derogatory statements made against or directed at another participant, and frequent or patterned interruptions that disrupt the efficient conduct of a meeting or teleconference.

Additionally, participants shall not use NERC activities for commercial purposes or for their own private purposes, including, but not limited to, advertising or promoting a specific product or service, announcements of a personal nature, sharing of files or attachments not directly relevant to the purpose of the NERC activity, and communication of personal views or opinions, unless those views are directly related to the purpose of the NERC activity. Unless authorized by an appropriate NERC officer, individuals participating in NERC activities are not authorized to speak on behalf of NERC or to indicate their views represent the views of NERC, and should provide such a disclaimer if identifying themselves as a participant in a NERC activity to the press, at speaking engagements, or through other public communications.

Finally, participants shall not distribute work product developed during the course of NERC activities if that work product is deemed Confidential Information consistent with the NERC Rules of Procedure Section 1500. Participants also shall not distribute work product developed during the course of NERC activities if distribution is not permitted by NERC or the relevant committee chair or vice chair (e.g., an embargoed report), provided that NERC, or the committee chair or vice chair in consultation with NERC staff, may grant in writing a request by a participant to allow further distribution of the work product to one or more specified entities within its industry sector if deemed to be appropriate. Any participant that distributes

work product labeled “embargoed,” “do not release,” or “confidential” (or other similar labels) without written approval for such further distribution would be in violation of this Policy. Such participants would be subject to restrictions on participation, including permanent removal from participation on a NERC committee or other NERC activity.

## **Reasonable Restrictions on Participation**

If a participant does not comply with this Policy, certain reasonable restrictions on participation in NERC activities may be imposed as described below.

If a NERC staff member, or committee chair or vice chair after consultation with NERC staff, determines, by his or her own observation or by complaint of another participant, that a participant’s behavior is disruptive to the orderly conduct of a meeting in progress or otherwise violates this Policy, the NERC staff member or committee chair or vice chair may remove the participant from a meeting. Removal by the NERC staff member or committee chair or vice chair is limited solely to the meeting in progress and does not extend to any future meeting. Before a participant may be asked to leave the meeting, the NERC staff member or committee chair or vice chair must first remind the participant of the obligation to conduct himself or herself in accordance with this Policy and provide an opportunity for the participant to comply. If a participant is requested to leave a meeting by a NERC staff member or committee chair or vice chair, the participant must cooperate fully with the request.

Similarly, if a NERC staff member, or committee chair or vice chair after consultation with NERC staff, determines, by his or her own observation or by complaint of another participant, that a participant’s behavior is disruptive to the orderly conduct of a teleconference in progress or otherwise violates this Policy, the NERC staff member or committee chair or vice chair may request the participant to leave the teleconference. Removal by the NERC staff member or committee chair or vice chair is limited solely to the teleconference in progress and does not extend to any future teleconference. Before a participant may be asked to leave the teleconference, the NERC staff member or committee chair or vice chair must first remind the participant of the obligation to conduct himself or herself in accordance with this Policy and provide an opportunity for the participant to comply. If a participant is requested to leave a teleconference by a NERC staff member or committee chair or vice chair, the participant must cooperate fully with the request. Alternatively, the NERC staff member or committee chair or vice chair may choose to terminate the teleconference.

At any time, a NERC officer, after consultation with NERC’s General Counsel, may impose a restriction on a participant from one or more future meetings or teleconferences, a restriction on the use of any NERC-administered listserv or other communication list, or such other restriction as may be reasonably necessary to maintain the orderly conduct of NERC activities. Before approving any such restriction, the NERC General Counsel must provide notice to the affected participant and an opportunity to submit a written objection to the proposed restriction no fewer than seven days from the date on which notice is provided. If approved, the restriction is binding on the participant, and NERC will notify the organization employing or contracting with the restricted participant. A restricted participant may request removal of the restriction by submitting a request in writing to the NERC General Counsel. The restriction will be removed at the reasonable discretion of the NERC General Counsel or a designee.

Upon the authorization of the NERC General Counsel, NERC may require any participant in any NERC activity to execute a written acknowledgement of this Policy and its terms and agree that continued participation in any NERC activity is subject to compliance with this Policy.

### **Guidelines for Use of NERC Email Lists**

NERC provides email lists, or “listservs,” to NERC stakeholder committees, groups, and teams to facilitate sharing information about NERC activities. It is the policy of NERC that all emails sent to NERC listservs be limited to topics that are directly relevant to the listserv group’s assigned scope of work. NERC reserves the right to apply administrative restrictions to any listserv or its participants, without advance notice, to ensure that the resource is used in accordance with this and other NERC policies.

Prohibited activities include using NERC-provided listservs for any price-fixing, division of markets, and/or other anti-competitive behavior. Recipients and participants on NERC listservs may not utilize NERC listservs for their own private purposes. This may include lobbying for or against pending balloted standards, announcements of a personal nature, sharing of files or attachments not directly relevant to the listserv group’s scope of responsibilities, or communication of personal views or opinions, unless those views are provided to advance the work of the listserv’s group. Any offensive, abusive, or obscene language or material shall not be sent across the NERC listservs.

Any participant who has concerns about this Policy may contact NERC’s General Counsel.

<b>Version History</b>		
<b>Version</b>	<b>Date</b>	<b>Revisions</b>
1	February 6, 2019	Initial version
2	February 22, 2019	Clarified policy does not apply to Board or MRC  Address participants speaking on behalf of NERC

# Meeting Minutes

## Project Management and Oversight Subcommittee (PMOS)

May 16, 2023 | 2:30 – 4:30 p.m. Eastern Time

### Introduction and Chair's Remarks

Chair M. Brytowski called the meeting to order at 2:32 p.m. Eastern. The meeting was announced and publicly posted on the [www.nerc.com](http://www.nerc.com) website. The Chair provided the subcommittee with opening remarks and welcomed members<sup>1</sup> and guests. Attendance was taken at the beginning of the meeting. See Attachment 1 for those in attendance.

### NERC Antitrust Compliance Guidelines, Participant Conduct Policy and Public Announcement

The NERC Antitrust Compliance Guidelines, NERC Participant Conduct Policy, and the Public Announcement were presented and reviewed by B. Wu. Mr. Wu noted the full antitrust guideline, participant conduct policy, and public announcement were provided in the agenda package to each member via email and posted on the PMOS webpage.

### Agenda Items

#### 1. Consent Agenda

- a. The chair made a motion to approve the proposed agenda and March 21, 2023 PMOS meeting minutes. The proposed meeting agenda and March 21, 2023 PMOS meeting minutes were approved by the PMOS members.

#### 2. PMOS Action Items

- a. PMOS action items review: no outstanding action items at this time.
- b. PMOS Scope and responsibilities were reviewed by the chair at a high level. The PMOS members agreed with the chair's observation that the PMOS Scope document should be revised. The chair is planning on discussing this with the Standards Committee chair and Director of Standards Development at NERC prior to the July in-person meeting.

#### 3. Project Tracking Spreadsheet (PTS) and Project Review

- a. 2016-02 – Modifications to CIP Standards:
  - A. Oswald/R. Shu reported: SDT is meeting weekly to work on edits to the standards for an additional posting. They're getting close to finalizing their CIP-010 draft but will need more time to work on CIP-005. The tracking spreadsheet currently shows an expected early April comment and ballot period but it will more likely be late April to early May. Deliverables:

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<sup>1</sup> The PMOS is composed of industry stakeholders where the chair or vice chair must be a member of the Standards Committee (SC) and the SC leadership are non-voting members of the PMOS.

Address all remaining V5TAG issues: Cyber Asset and BES CA (BCA) definitions, Network and Externally Accessible Devices (ESP, ERC, and IRA), Obligations, Virtualization, and CIP Exceptional Circumstances. The team is working on CIP-007 and CIP-010 while CIP-005 and the associated definitions are out for comment.

b. 2017-01b – Modifications to BAL-003-1:

P. Hunter reported: Posted on April 18 for comments and ballot closes on June 1. This is a 45-day additional comment period with 10-day ballot. Industry Webinar is scheduled for this Friday, May 19. Slides and recording will be posted on the NERC website 24-72 hours after the webinar.

c. 2019-04 – Modifications to PRC-005:

J. Gatten reported: The SDT met today and is looking to take standard specific definitions and have them moved to the GOT. The Project 2019-04 will be presented to the Standards Committee at their April 2023 meeting for approval for an initial 45-day posting period with 10-day ballot and, upon approval, is scheduled to post on April 24th.

d. 2020-02 – Modifications to PRC-024 (Generator Ride-through):

P. Hunter/J. Blume reported: Standards Committee approved that the SAR DT to become a Standards Drafting Team and the team will be meeting soon to start drafting standards.

e. 2020-04 – Modifications to CIP-012-1:

S. Habriga reported: The SC appointed additional members to replace some that have left and add additional expertise. The new SDT kickoff meeting is scheduled on May 3, 2023. The SDT will continue to work on reviewing the comments received from the industry from the third posting and working towards the fourth posting.

f. 2020-06 – Verifications of Models and Data for Generators:

S. Habriga reported: MOD-026-2 (Draft 2) comment and ballot concluded on January 18th. The revisions did not pass ballot. The SDT is in the process of completing Consideration of Comments and revisions to MOD-026-2. The SDT conducted industry outreach in April and an industry webinar on April 24. Quality Review is being conducted for MOD-026-2 (Draft 3) until May 10. The SDT plans on late May or early June additional posting.

g. 2021-01 – Modifications to MOD-025 and PRC-019:

R. Shu reported: Consideration of comments has been posted on the project website. Both standards have an additional posting from April 25 to June 8. An industry webinar will be held on May 11.

h. 2021-02 – Modifications to VAR-002-4.1:

J. Gatten reported: Project 2021-02: The initial comment period and ballots concluded at 8:00 p.m. Eastern on Friday, January 13. The ballot failed with just under 52% approval. The SDT has been reviewing comments received from the industry and is encouraged by the comments they have received. The Team believes they can make updates and have a quick turnaround for



the next ballot. The SDT will make revisions to the Draft Version I VAR-002-5 based on comments received and will move to an additional 45-day comment period with 10-day ballot following the SDT meetings.

i. 2021-03 – Transmission Owner Control Centers (TOCC):

E. Murphy reported: Group A has continued to meet to discuss revisions to the exclusion criteria in CIP-002 R2.12; Group B has addressed comments on the first posting of the Communications Protocol Converters SAR. In reviewing comments and in discussing the impact of addressing Communications Protocol Converters, members of the Drafting Team have raised concerns about whether they are the right group to carry out modifications. The developer met with the Director of Standards Development and is in agreement with the team's concerns. The SAR has been taken off the agenda and the SDT is looking to have the SAR re-assigned to a new solicited drafting team.

j. 2021-04b – Modifications to PRC-002-2 (Phase Two):

C. Yeung/M. Brytowski reported: Phase two is currently ongoing. The SDT met in person on April 5 & 6, 2023, and decided to develop a new standard (PRC-028-0) to address IBR issues. SC approved the Project 2021-04 Standard Drafting Team (SDT) to create a new standard to address needs identified in the IRPTF SAR on April 19, 2023. The SDT has two conference calls set up before they meet in person on May 31 and June 1, 2023.

k. 2021-06 – Modifications to IRO-010 and TOP-003:

M. Brytowski reported: The Project passed the initial ballot. The SDT will discuss if they should repost for an additional ballot or directly go to the final ballot.

l. 2021-07b – Extreme Cold Weather Grid Operations, Preparedness, and Coordination (Phase Two)

M. Brytowski reported: The team has started phase 2 drafting work. On February 16, 2023, FERC issued an order approving the phase one standards and directing changes to EOP-012. An Initial ballot for phase 2 that only includes EOP-011 and TOP-002 standards started at the end of February. The team is currently working on EOP-012 to include the recommendations from Phase 2 as well as the directives from FERC. An initial posting for that standard only is expected in May 2023. Going forward, the team will attend to have all additional postings for this project at the same time. The team met the week of 5/9, in-person in Louisville, and is working towards posting EOP-012 the week of May 29th.

m. 2021-08 – Modifications to FAC-008-5

S. Habriga reported: This SDT is currently reviewing the comments received from the Quality Review Team. The next step will be sending the final draft to the SC (in July) for approval for initial posting.

n. 2022-01 – Reporting ACE Definition and Associated Terms

C. Fritz reported: Since the initial ballot, the SDT has made significant revisions to the Reporting ACE and IIM definitions and will require an additional ballot. In addition, the team

drafted the new ADI definition which will require an initial ballot to be posted. The other 24 definitions either have had extremely minor or no further revisions made and will only require a final ballot once the other definitions catch up. It is expected that the new ADI definition will be going to the Standards Committee for initial ballot approval in June. All 27 definition changes are expected to be ready for the final ballot this fall.

o. 2022-02 – Modifications to TPL-001-5.1 and MOD-032-1

E. Murphy reported: The SDT chose to work on MOD-032 as a phase of this project. The SDT finished reviewing the comments received from the Quality Review Team. The final documents were submitted to SC for their review and approval for initial posting. The initial posting started on May 31, 2023, and will end on July 14, 2023.

p. 2022-03 – Energy Assurance with Energy-Constrained Resources

J. Gatten reported: The redlined SARs were accepted and the SAR DT was promoted to the SDT to start standards development at the January Standards Committee (SC) meeting. SDT had several meetings to discuss how to approach standards development. At their March 2, 2023 meeting, the SDT decided to split into two sub-teams to work on language for each SAR concurrently. The goal is for the sub-teams to have, at a minimum, three meetings before their in-person meeting which is scheduled in Atlanta for May 9-10, 2023.

q. 2022-04 – EMT Models in NERC MOD, TPL, and FAC Standards

C. Fritz reported: Held an in-person meeting in Atlanta on April 4-5th and a conference call on April 17th – the team started revising the SAR and responding to SAR comments received from industry. Currently meeting roughly about every 2 weeks. Made numerous revisions to the SAR – not sure if revving three standards or possibly creating new standards that affect FAC-002, MOD-032, and TPL-001. Need to coordinate with a couple of other groups to ensure no impact on other projects or duplication of efforts – Projects 2022-02 Mods to TPL-001 & MOD-032 and Project 2020-06 Verification of Models & Data for Generators and also coordinating with the EMT Task Force. The developer forwarded comment responses to the team for further input for the next upcoming meeting that is scheduled for May 15, 2023. The developer anticipates that the SAR revisions and response to comments will be completed by the end of May for submission to June Standards Committee for acceptance and to authorize standard drafting.

r. 2022-05 – EMT Models in NERC MOD, TPL, and FAC Standards

E. Murphy reported: In reviewing the industry response to the SAR, the SAR Drafting Team grappled with whether there was enough industry support to justify the stated reliability benefit. There appeared to be some disconnect between the written purpose and the actual purpose that drove the creation of the SAR. The justification for revisions that no material changes in a number of reportable cybersecurity incidents that were determined to attempt to compromise did not resonate as an actionable issue to most of the industry. Representatives from the ERO and FERC who attended SAR Drafting Team meetings were able to provide context in the meetings of consistent areas of concern identified in compliance monitoring and

enforcement activities. The SAR Drafting Team is revising the SAR to clarify the need for the revisions.

s. 2023-01 – EOP-004 IBR Event Reporting

R. Shu reported: The SAR drafting team had its kickoff meeting on April 27, 2023. The team reviewed and discussed the history and background of the project. The SAR drafting team also reviewed and revised the SAR based on the industry comments. The goal is to submit the SAR to the SC for approval on May 17, 2023.

t. 2023-02 – Performance of IBRs

C. Fritz reported: Last PMOS meeting in March I agreed to be a backup for that project but I haven't heard anything on that project. Nominations were open for the SAR drafting team in March.

u. 2023-03 – Internal Network Security Monitoring (INSM)

B. Wu reported: Nominations are being sought for drafting team members through 8 p.m. Eastern, Friday, May 5, 2023. This project was assigned to Ruida Shu as the primary PMOS liaison.

v. 2023-04 – Modifications to CIP-003

B. Wu reported: Nominations are being sought for drafting team members through 8 p.m. Eastern, Monday, May 15, 2023. This project was assigned to Kirk Rosener as the primary PMOS liaison.

**4. Other**

a. Project assignments: Ruida Shu was assigned as the primary liaison for 2023-03. Kirk Rosener was assigned as the primary liaison for 2023-04.

b. Next meeting (In Person):

Tuesday, July 18, 2023 from 2:00 - 4:00 p.m. Local Time (Central)

Midwest Reliability Organization (MRO)  
380 St Peter St. #800  
St, Paul, MN 55102

**5. Adjournment**

The meeting was adjourned at 4:22 p.m. Eastern.

**Attachment 1 (May 16, 2023)**

Name	Company	Member/Observer	Date
Ben Wu	NERC	Secretary	5/16/2023

Todd Bennett	AECI	Observer	5/16/2023
Joseph Gatten	Xcel Energy	Observer	5/16/2023
Mike Johnson	PGE	Observer	5/16/2023
Michael Brytowski	GREnergy	Chair	5/16/2023
Pamela Hunter	Southern Company	Member	5/16/2023
Mia Wilson	SPP	Observer	5/16/2023
Claudine Fritz	Exelon Corp	Member	5/16/2023
Sarah Crawford	NERC	NERC Staff	5/16/2023
Matthew Harward	SPP	Observer	5/16/2023
Scott Barfield-McGinnis	NERC	NERC Staff	5/16/2023
Kimberlin Harris	NERC	NERC Staff	5/16/2023
Chris Larson	NERC	NERC Staff	5/16/2023
Donovan Crane	WECC	Observer	5/16/2023
Sarah Habriga	ATC LLC	Member	5/16/2023
Rachel Coyne	Texas RE	Observer	5/16/2023
Ellese Murphy	Duke Energy	Member	5/16/2023
Ruida Shu	NPCC	Member	5/16/2023
Sharon Mayers	Worley	Observer	5/16/2023
Colleen O'Donnell	Puco Ohio	Observer	5/16/2023
Pamela Hunter	Southern Company	Member	5/16/2023
Dominique Love	NERC	NERC Staff	5/16/2023
Charles Yeung	SPP	Vice Chair	5/16/2023
Alison Oswald	NERC	Observer	5/16/2023
Josh Blume	NERC	Member	5/16/2023