

Agenda

Project Management and Oversight Subcommittee In-Person Meeting

December 12, 2022 | 2:00–4:00 p.m. Eastern Time

Dial-in: 1-415-655-0002 | Access Code: 2300 445 5384 | Meeting Password: 12122022

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Introduction and Chair's Remarks

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

Agenda Items

1. **Consent Agenda - Approve - Charles Yeung**
 - a. October 18, 2022 Project Management and Oversight Subcommittee Meeting Minutes*
2. **PMOS Action Items - Review - Charles Yeung / Ben Wu**
 - a. PMOS Action Items Review - Charles Yeung / Ben Wu
None.
 - b. PMOS Nomination (2023-2024) - **Update** - Ben Wu
 - c. PMOS New Member(s) - **Approval** - Charles Yeung / Mike Brytowski
 - d. PMOS 2023 Meeting Schedule - Charles Yeung / Ben Wu / All
3. **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
 - c. 2019-04 – Modifications to PRC-005 - **Update** - Joseph Gatten
 - d. 2020-02 – Modifications to PRC-024 (Generator Ride-through) - **Update** - Pamela Hunter / Anthony Westenkirchner
 - e. 2020-03 – Supply Chain Low Impact Revisions - **Update** - Kirk Rosener / Ken Lanehome
 - f. 2020-04 – Modifications to CIP-012-1 - **Update** - Sarah Habriga / Ken Lanehome
 - g. 2020-06 – Verifications of Models and Data for Generators - **Update** - Sarah Habriga / Ellese Murphy
 - h. 2021-01 – Modifications to MOD-025 and PRC-019 - **Update** - Kirk Rosener

- i. 2021-02 – Modifications to VAR-002-4.1 - **Update** - *Rebecca Moore Darrah / Joseph Gatten*
 - j. 2021-03 – Transmission Owner Control Centers (TOCC) - **Update** - *Ellese Murphy / Ken Lanehome*
 - k. 2021-04 – Modifications to PRC-002-2 - **Update** - *Mike Brytowski / Charles Yeung*
 - l. 2021-05 – Modifications to PRC-023-4 - **Update** - *Anthony Westenkirchner / Claudine Fritz*
 - m. 2021-06 – Modifications to IRO-010 and TOP-003 - **Update** - *Mike Brytowski / Charles Yeung*
 - n. 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination - **Update** - *Mike Brytowski / Kirk Rosener*
 - o. 2021-08 – Modifications to FAC-008-5 - **Update** - *Ken Lanehome / Sarah Habriga*
 - p. 2022-01 – Reporting ACE - **Update** - *Claudine Fritz*
 - q. 2022-02 – Modifications to TPL-001-5.1 and MOD-032-1 - **Update** - *Ellese Murphy*
 - r. 2022-03 – Energy Assurance with Energy-Constrained Resources - **Update** - *Ken Lanehome / Joseph Gatten*
 - s. 2022-04 – EMT Models in NERC MOD, TPL, and FAC Standards - **Update** - *Claudine Fritz / Charles Yeung*
 - t. 2022-05 – Modifications to CIP-008 Reporting Threshold - **Update** - *N/A*
- 4. Other**
- a. PMOS liaison assignment review - *Charles Yeung / All*
 - b. Next meeting: TBD
 - c. Other

5. 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.

Version History		
Version	Date	Revisions
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)

October 18, 2022 | 2:30 – 4:30 p.m. Eastern Time

Introduction and Chair's Remarks

Chair C. Yeung called the meeting to order at 2:30 p.m. Eastern. The meeting was announced and publicly posted on the www.nerc.com website. The Chair provided the subcommittee with opening remarks and welcomed members¹ and guests. 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 September 20, 2022 PMOS Meeting Minutes were reviewed. J. Gatten made a motion to approve the meeting minutes, seconded by C. Fritz and then approved by the PMOS members

2. PMOS Action Items

- a. PMOS action items review: no outstanding action items at this time.

3. Project Tracking Spreadsheet (PTS) and Project Review

- a. 2016-02 – Modifications to CIP Standards:

K. Lanehome reported: The SDT has posted 11 draft standards for formal comment, as well as some new and updated NERC Glossary definitions. The ballots will be open September 28-October 7. An industry webinar was held on September 12 to go over the proposed updates and answer questions.

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

There was no update for this project at the meeting. L. Anderson previously reported: A formal 45-day initial comment period with 10-day ballot began on July 25th for the BAL-003 Phase II standard and implementation plan, as well as a non-binding poll of the associated Violation Risk Factors and Violation Severity Levels and ended on September 7th. An industry webinar was conducted on August 23 (recording) and August 25, 2022 (live with Q&A at the end of the

¹ 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.

presentation. The SDT will meet on September 27, 28 and 29 to review and respond to industry comments received and work to move the project to an additional formal 45-day comment period with 10-day ballot.

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

J. Gatten reported: There has been a SDT subgroup meeting to write the technical rationale and FAQ, which is now complete. The sub team presented the documents to the whole team for discussion on October 13. The team is making final edits to standard and supporting document prior to going to Quality Review. At the December Standards Committee (SC) meeting, will request approval for 45-day initial posting with 10-day ballot period. Next Meeting October 27, 2022.

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

A. Westenkirchner/J. Blume reported: Revised transmission-connected dynamic reactive resources (TCDRR) Standard Authorization Request (SAR) accepted by SC at April 20 meeting. SDT began revisions to PRC-024 and drafting Technical Rationale. There is a new SAR proposing a ride-through standard, which would replace/revise PRC-024-3. This be submitted to the SC on May 18. The next steps for Project 2020-02 will be coordinated appropriately.

e. 2020-03 – Supply Chain Low Impact Revisions:

K. Rosener reported: The project passed third ballot with 66.8% and the team is working towards final ballot which will occur in October. The team is working towards to November Board meeting.

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

S. Habriga reported: The team is reviewing comments from QR this week working toward the third posting. The expected posting date is the week of October 4th. Update additional ballot 3 dates to show Oct 6 – Nov 19th. Final Ballot will be in January 2023.

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

S. Habriga/ E. Murphy reported: The initial comment period for MOD-026-2 (combined MOD-026/027) ended on July 6, 2022. The SDT members are drafting response to industry comment, and revising MOD-026-2 and associated documents. An additional posting is planned for late October/early November.

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

K. Rosener reported: Quality Review was complete for MOD-025-3 and PRC-019-3 on August 29. Request to authorize initial posting at Sept. 21 SC meeting; Initial posting scheduled for Sept. 29 until mid. November.

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

J. Gatten reported: On June 15, 2022 the Standards Committee (1) accepted the SAR; (2) Authorized drafting revisions to the Reliability Standard identified in the SAR; (3) appointed the Project 2021-02 SAR drafting team as the SDT; and (4) Authorized a 30-day solicitation for

nominations period to add SDT members with specific industry expertise as TOPs who receive and apply information to their respective Real-time assessment and Real-time monitoring activities. NERC staff recommendation for additional team members (requesting approval) will be on the October 2022 Standards Committee agenda.

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

E. Murphy / J. Mallory reported: SAR DT met on March 25, April 22, and May 13, 2022. SAR DT responses to Questionnaire #2 (Q2), power flow studies, and one-line diagrams have been completed. Q1 and Q2 are posted on the NERC website and the team is working to update the public documents with the power flow studies and one-line diagrams with information that can be publicly shared. The team will be reviewing the power flow studies and one-line diagrams to determine if additional information (Q4) will be needed. If a 4th Questionnaire is necessary, it will be distributed on or around September 6, 2022. Next scheduled meeting will be on May 13, 2022. Other detailed schedule of activities below.

k. 2021-04 – Modifications to PRC-002-2:

M. Brytowski reported: This project passed with 69% addressing the Glencoe SAR from initial posting. SDT is currently working on the second posting. The second posting is scheduled for September 26, 2022 with a 45 day comment period. The SDT will review the comments and provide responses after that.

l. 2021-05 – Modifications to PRC-023-4:

A. Westenkirchner reported: The Standard Drafting Team concluded to retire Requirement R2 with the reasoning mentioned in the justification document. SC approved modified Standard with retirement of R2 for posting in September, 2022. The initial posting for comments with ballot is currently posted through December 2, 2022.

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

M. Brytowski reported: A 30-day informal comment period for the 2021-06 Modifications to IRO-010 and TOP-003 Standard Authorization Request, is open through 8 p.m. Eastern, Friday, August 6, 2021. The nomination period for SAR Drafting Team has been extended to August 16, 2021. The initial comment period is scheduled for October 25, 2022 with ballot for the last 10 days.

n. 2021-07 – Extreme Cold Weather Grid Operations, Preparedness, and Coordination

M. Brytowski reported: The project passed second ballot for EOP-012-1. EOP-011-3 passed initial ballot. The team is now working towards final ballot to meet the September 30, 2022 NERC Board deadline. Update additional ballot dates to reflect the posting which was 8/3 – 9/1, 2022; Final Ballot Dates: 9/23 – 9/30.

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

K. Lanehome reported: The SAR DT met thirteen times (including the Project kickoff meeting) from May 10, 2022 through August 16, 2022 to review and make revisions to the SAR. The team discussed and considered industry comments during this process. SC approved the

redlined SARs on September 21, 2022. The SDT will start working on the Standards on October 17, 2022.

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

C. Fritz reported: Project 2022-01 is continuing to work on the retired, modified and newly proposed definitions associated with reporting of ACE and the BAL-002 standard. They are trying to target finishing with the drafting in November for the December Standards Committee agenda to gain approval and go to initial ballot in January.

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

E. Murphy reported: A comment period for the Project 2022-02 Modifications to MOD-032 and TPL-001 SARs closed on March 02, 2022. SC appointed chair, vice chair, and members to the SAR Drafting Team at the SC's April meeting. The SAR DT finished reviewing the comments received from the industry and redlined the SARs. SC approved the redlined SARs on September 21, 2022. The SDT will start working on the Standards on October 20, 2022.

r. 2022-03 – Energy Assurance with Energy-Constrained Resources - Update –TBD

K. Lanehome reported: The SDT held multiple a non-public meeting over the past month to review the highly confidential and proprietary data received from the field test. A public meeting was held on September 7 to update industry on the status of the project and that there will be a questionnaire 3 distributed from September 14 through September 30. The team hopes this will be the last questionnaire and that the team will be able to wrap up the data study following the completion of this questionnaire. The SDT will review questionnaire 3 over the month of October and plans to have a public call in early November to update industry and provide the next plans going forward for this project.

s. 2022-04 – EMT Models in NERC MOD, TPL, and FAC Standards - Update –TBD

C. Fritz / L. Harkness reported: On July 20, 2022, the SC accepted the following Standard Authorization Request (SAR) that was endorsed by the Reliability and Security Technical Committee (RSTC) and is recommended by NERC staff: SAR to revise three existing NERC Reliability Standards (i.e., FAC-002, MOD-032, and TPL-001), submitted by the Inverter-Based Resources Performance Subcommittee (IRPS). The SC also authorized posting of the SAR for a 30-day informal comment period; and authorized solicitation of the SAR drafting team (DT) members. Nominations are being sought for Project 2022-04 EMT Modeling Standard Authorization Request (SAR) drafting team members through 8 p.m. Eastern, Tuesday, September 13, 2022.

4. Other

- a. Project assignments: C. Yeung was added as backup liaison for Project 2017-01b; S. Habriga was added to Project 2019-04 as backup.

- b. B. Wu updated the group that the nomination form for soliciting new PMOS members would be posted in November, 2022. The new members, if get approved by PMOS leadership, will be served on PMOS from January 1, 2023 through December 31, 2024.
- c. Next meeting (WebEx):
In person meeting at NERC office in Atlanta: Monday, December 12, 2022 from 2:00 - 4:00 p.m. Eastern Time (local time)

5. Adjournment

The meeting was adjourned at 3:58 p.m. Central Time.

Attachment 1 (October 18, 2022)

Name	Company	Member/Observer	Date
Charles Yeung	Southwest Power Pool, Inc.	Chair	10/18/2022
Michael Brytowski	Great River Energy	Vice Chair	10/18/2022
Ben Wu	NERC	Secretary	10/18/2022
Kirk Rosener	CPS Energy	Member	10/18/2022
Ken Lanehome	BPA	Member	10/18/2022
Anthony Westenkirchner	Eergy	Member	10/18/2022
Ellese Murphy	Duke Energy	Member	10/18/2022
Joseph Gatten	Xcel Energy	Member	10/18/2022
Sarah Habriga	ATC LLC	Member	10/18/2022
Elsa Prince	NERC	NERC Staff	10/18/2022
Claudine Fritz	Exelon Corp	Member	10/18/2022
Todd Bennett	AECI	SC Chair	10/18/2022
Latrice Harkness	NERC	NERC Staff	10/18/2022
Josh Blume	NERC	NERC Staff	10/18/2022
Chris Larson	NERC	NERC Staff	10/18/2022
Marisa Hecht	NERC	NERC Staff	10/18/2022
Mike Johnson	PGE	Observer	10/18/2022
Jordan Mallory	NERC	NERC Staff	10/18/2022
Rachel Coyne	TEXAS RE	Observer	10/18/2022
7706864171		Observer	10/18/2022
4705426882		Observer	10/18/2022