

Meeting Notes

Project 2023-01 EOP-004 IBR Event Reporting Drafting Team Meeting

July 14, 2025 | 2:00 – 4:00 p.m. Eastern

WebEx

Administrative

1. Introductions

The meeting was brought to order by the Chair, Charlie Cook at 2:02 p.m. Eastern on July 14, 2025. The Chair provided the Drafting Team (DT) with opening remarks and welcomed members and guests.

2. Determination of Quorum

The rule for NERC DT states that a quorum requires two-thirds of the voting members of the DT. Quorum was achieved as 8 of the 9 members were present for the meeting. See Attachment 1 for those in attendance.

3. NERC Antitrust Compliance Guidelines and Public Announcement

NERC Antitrust Compliance Guidelines and public announcement were reviewed by Michael Gabor. There were no questions raised.

4. Review Meeting Agenda and Objectives

Developer reviewed agenda items and objectives. There were no questions raised.

5. Project and Administrative Updates

Developer reviewed the pending Parking Lot items.

Agenda Items

1. Review EOP-004-5 Proposed Changes with NERC Event Analysis (EA) Staff

- a. EOP-004-5 general comments and concerns
 - i. NERC Event Analysis (EA) staff joined the DT meeting and provided an overview and key differences between the EOP-004 Reliability Standard and the EA voluntary program. Generally, the standard is viewed as the minimum requirement for system operation and reliability, while the EA program is focused on continuously improving the level of performance and reliability.
 - ii. EA staff and DT members discussed the proposed Interconnection (IC)-based reporting thresholds. EA has used the 500 MW reporting threshold as a starting point and going forward, will follow how these proposed, IC-based reporting thresholds track, trend, and measure improvement in IBR performance. DT members summarized the rationale for the proposed, IC-based reporting threshold (Eastern IC, 900 MW; Western IC, 500 MW; ERCOT, 800 MW; and Quebec, 500 MW), as building consensus across industry, which did not previously support the universal 500 MW reporting threshold. Also, the DT is seeking to:
 - (1) balance the needs of the EA program,
 - (2) provide reporting thresholds that are recognized by industry (they are based on thresholds listed in the NERC defined term, Reportable Balancing Contingency Event, and BAL-002),
 - (3) minimize concerns with shifting from voluntary to mandatory reporting requirements, and
 - (4) to not miss a reportable event occurrence.
- b. Attachment 1: loss of DC line category comments and concerns
 - i. EA staff did not have any general comments regarding this reportable event type. Rather, they shared related, specific comments during discussion of past Category 1j submittals, and BPA- and EEI-submitted comments.
- c. EA staff to review past examples of EA voluntary program Categories 1i and 1j submittals and entity submitter type (e.g. BA, GOP, GO, etc.)
 - i. EA staff reported that since March of 2020, the EA voluntary program received a total of 16 reportable Category 1i events from a total of three (3) entities, two of which are registered as a Balancing Authority (BA) and Reliability Coordinator (RC) and one as a BA. The EA voluntary program has never received a Category 1j reportable event and was not viewed as a reliability concern. EA staff summarized that initially, both Categories 1i and 1j were included in the EA voluntary program in response to PV loss at the time. DC IBRs were also a topic of concern at that time and were added into Category 1j. Since their addition, DC lines have not had such problems.

2. Revisit Stakeholder Informal Comments and Discuss with EA Staff

a. BPA-submitted Question 1 comment

- i. DT previously included “complete” but hesitated to exclude automatic restart events under Attachment 1, “Loss of DC Line” event type after initially reviewing BPA’s 2024 informal comments. DT requested additional clarification from BPA on including “both poles” and “excluding auto restart events,” which BPA provided. DT asked EA staff for their comment and EA SME agreed with the proposed changes to include “complete” and not to include “both poles” and encouraged the DT to add “excluding automatic restart events.” Doing so, brings this event type, “Loss of DC line,” in line with the similar “Transmission loss” event type, which has similar language. DT agreed and proposed addition of “excluding auto restart events.”

b. EEI-submitted Question 4 comment

- i. DT previously discussed a comment submitted by EEI to provide additional Technical Rational (TR) justification on the inclusion of the “Loss of DC line” reporting event type or to remove it from EOP-004 if additional TR is not available. The SAR currently directs the DT to “ensure” inclusion of both Category 1i and Category 1j events in EOP-004 Attachment 1. If the DT concludes not to include Category 1j events, the SAR would need to be revised, based on justification on why it’s not necessary to include for reliability. The DT proposed removal of “Loss of DC line” from Attachment 1, based on EA staff’s report that they have never received a Category 1j event report to date. A motion to review the necessary approach to revise the SAR to remove Category 1j was made and no objections to remove it were raised by any DT member. EA staff also discussed their support to remove Category 1j from the EA voluntary process, which is done via the Event Analysis Subcommittee (EAS) of the RSTC, which is the owner of the voluntary Event Analysis (EA) program.

c. ERCOT-submitted Question 4 comment

- i. DT previously discussed a comment submitted by ERCOT regarding IBR loss events of less than 500 MW and asked the DT to consider coordinating with NERC’s EA program to determine if additional categories are needed for IBR generation loss events of less than 500 MW that occur during periods of low wind or solar output. EA staff recommended that the DT stay with what it proposed and not include additional reporting thresholds for the other events listed in the comment, as the voluntary program will still have the 500 MW reporting threshold. DT agreed and acknowledged that it would also be challenging to develop low wind or solar output definitions.
- ii. DT discussed a scenario of whether an offshore wind farm would still need to report as an “IBR loss” if the DC tie connecting it to the land-based grid failed. EA staff recommended that if the DT proposes removal of the “Loss of DC line” event reporting, to then include language under “IBR loss” that requires reporting of such a scenario. DT to consider addition of such language at a future DT meeting.

3. Begin Drafting the TR

a. Overview of TR requirements

- i. Developer provided a brief overview of the purpose of the TR, including its role to tell the story of the proposed standard's development. It is a resource for industry and FERC to understand the changes and reasoning.
- b. TR individual drafting assignments
 - i. The following assignments were made:
 - (1) Charlie Cook: Rationale for Attachment 1
 - (2) Todd Bennett: Rationale for Attachment 2
 - (3) Patrick Gravois and Ali Miremadi: discuss providing additional background on battery charging vs. discharging under the Background section or somewhere else.

4. Next Step(s)

- a. Request volunteers for Quality Review (QR)
 - i. Item was tabled for a future DT meeting.
- b. Project is tentatively scheduled to post for 45-day formal comment and additional ballot in late-September 2025

5. Adjourn

- a. The meeting adjourned at 3:57 p.m. Eastern by consent.

Parking Lot

Topic	Due Date
Revise the SAR to remove reference to Category 1j events, provide technical basis, and request the Standards Committee to approve the revised SAR.	In Progress
Follow up on Requirement R2 VSLs with NERC Legal staff on proposed language and report back to the DT.	In Progress
Add graphs, etc. to the Implementation Guidance to support the IBR generation loss event reporting category and illustrate the 30 second or less period.	July 31, 2025
Select webinar date to coincide with after posting Draft 2 for a 45-day formal comment and additional ballot. Prepare slides and include a summary response to the informal comment period.	Late-September 2025
Developer to include a question for the next comment form asking whether what the DT proposed clarifies which telemetry data (BES vs. BPS) are to be included in the calculation.	Late-September 2025

Attachment 1

Name	Company	Member/ Observer	Attendance (Y/N)
Charlie Cook	Duke Energy	Member	Y
Ali Miremadi	California ISO	Member	Y
Patrick Gravois	ERCOT	Member	Y
Michael Ropp	Sandia National Laboratories	Member	Y
Filippo Benigni	Florida Power & Light	Member	Y
Todd Bennett	AECI	Member	Y
Cindy Robert	Hydro-Quebec	Member	Y
Mario L. Kiresich	SCE	Member	N
Rob Robertson	Leeward Renewable Energy	Member	Y
Michael Gabor	NERC	Developer	Y
Dominique Love	NERC	Developer	Y
Ruida Shu	NPCC	Observer	N
Terri Pyle	Oklahoma Gas & Electric	Observer	N