

Meeting Notes

2023-02 Analysis and Mitigation of BES Inverter-Based Resource Performance Issues

May 20, 2024

Conference Call with Web Access

Administrative

1. Introductions

The meeting was brought to order by J. Blume at 1:00 p.m. Eastern on Monday, May 20, 2024.

2. Determination of Quorum

The rule for NERC Drafting Team (DT) states that a quorum requires two-thirds of the voting members of the DT. J. Blume completed roll call, the attendance list is in Attachment 1 of the meeting notes. Quorum was achieved as eight of total members were present.

3. NERC Antitrust Compliance Guidelines and Public Announcement

NERC Antitrust Compliance Guidelines and public announcement were reviewed by J. Blume. There were no questions raised.

4. Roster Updates

The team reviewed the team roster and confirmed that it was accurate and up to date.

Agenda

1. Review Meeting Agenda and Objectives

2. Discussion

The DT discussed Requirement R1, specifically the language around the identification threshold levels. The DT reviewed previous changes, focusing on lowering the nameplate rating from 20% to 10%. Next, the team discussed the rationale for the two-second period and whether it needed to be changed. P. Gravois analyzed an IBR in the Odessa event, noting 26 sudden power changes, with 21 attributed to telemetry issues and the remainder to partial Ride-Through issues during the event.

The DT asked about the longest scan rate. An observer mentioned BAL-005, which has a six-second scan rate. J. Blume asked ISO RTO members about their scan rates, and P. Dalton mentioned that MISO's was the longest at four seconds. A team member suggested a maximum scan rate of four seconds, which would allow for shorter intervals. The team voted on this proposal: four approved, one opposed, and three abstained. The sole opposition stemmed from a lack of clarity, so the change was adopted.

The DT then discussed the language around "gross nameplate rating" in Requirement R1. DT suggested replacing it with "interconnection agreement reasoning" due to the IBR gross plate rating exceeding the interconnection limit. The team did not reach a consensus on this change. P. Dalton mentioned a two-tiered approach to the identification limits. M. Gutzmann asked GOs about this change, but no GOs responded. The DT tabled this idea for future consideration and moved on to the next topic.

The DT then focused on Requirement R2 and ideas from comments pertaining to it. The team discussed the language and added apparent power language to section 2.1.2, as it had been removed from Requirement R1. The DT added "in front of IBR facilities" to clarify the standard language. The team voted on the language change: five voted in favor, and two abstained. The language changes passed, and the meeting concluded.

3. Action Item Review

- a. Sub teams to review and draft comment responses.
- b. Clarifying language addition around Requirement 2.2.

4. Future meeting(s)

- a. May 22, 2024, Reliability First, 1:00 – 3:30 p.m. Eastern

5. Adjourn

The meeting adjourned at 3:30 p.m. Eastern.

Attachment 1 Attendance for May 20, 2024					
	Name	Company	Member/ Observer	Questions assignment	Conference Call/Web (Y/N)
Chair	Mark Gutzmann*	Xcel Energy			Y
Vice Chair	Biju Gopi	CAISO			Y
Members	Andy Hoke	NREL			Y
	Chester Li	Hydro One			Y
	Patrick Gravois	ERCOT			Y
	Patrick Dalton	MISO			Y
	Mohamed ElNozahy	Independent Electricity System Operator of Ontario (IESO)			N
	Emily Greene	Electric Power Engineers			N
	Anuradha Kariyawasam	Electranix Corporation			N
	David Marshall	Southern Company Services			Y

	Anthony Williams	Duke Energy			N
	Li Yu	HECO			Y
	Dan Waugh	NextERA			Y
FERC	Syed/ James	FERC			Y
NERC Staff	Ryan Mauldin	NERC			Y
	Sarah Crawford	NERC Legal			N