

Meeting Notes

Project 2022-02 Modifications to TPL-001-5.1 and MOD-032-1

Standard Drafting Team Meeting

November 8, 2022 | 1:00 – 3:00 p.m. Eastern

Introduction and Chair's Remarks

Chair M. Schmall called the meeting to order at 1:00 p.m. Eastern. The Chair welcomed members and guests. See Attachment 1 for those in attendance.

NERC Antitrust Compliance Guidelines and Public Announcement

The NERC Antitrust Compliance Guidelines, NERC Participant Conduct Policy, and the Public Announcement were presented and reviewed by the secretary.

Agenda Items

1. Introduction

- a. The Chair welcomed the Standard Drafting Team members and the participants from the industry.
- b. Agenda was reviewed and approved.

2. DER Study, Findings, and Key Recommendation

J. Skeath presented on DER findings and recommendations at the meeting.

The findings include but not limited to:

DER response impacts the nadir frequency of a large Interconnection-wide resource loss events: Both negatively and positively depending on distance of loss to DER;

Faults close to the DER cluster have higher impact to the results of simulation, regardless of threshold: Follows similar logic to bulk connected IBR. Lower voltage applied to converter terminal in simulation = greater loss of IBR (distribution and bulk);

At current penetrations, ignoring 10% of the load record in DER has little impact to simulation results: This has limitations and qualifiers.

High Level Recommendations:

Each PC and TP should use available data gathering techniques to gather the total DER capacity for their footprint.

Each PC and TP should ensure that their load composition improvements are also including DER control performance, especially when exploring system level response to faults.

Each PC and TP should determine modeling thresholds as appropriate for their local system.

WECC and NERC should work together to improve the quality of the Interconnection-wide base cases to reflect best available engineering judgement, particularly around the documented troubleshooting in this study in Appendix A.

Current and future standards projects relating to the gathering of Interconnection-wide modeling data (e.g., MOD-032) should incorporate the findings of this study when adding language to such standards for DERs.

Note that a zero MVA threshold is recommended for such standards activities that relate to the supply of DER data to TPs and PCs.

3. Develop Draft of Standard, Implementation Plan, VRFs and VSLs

The SDT made the following modifications in attachment 1:

Improvement/clarification of the proposed parenthetical language “when Demand/DER is not associated with a registered DP”.

Add more detailed sub-bullet list for the added DER data requirements (Patrick Q. and Hassan have volunteered to take a first cut at the drafting the sub-bullet list based on NERC Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies and/or other sources).

The footnote (4) I added to address cases where TP/PC may not need DER data from DP/TO.

Is a DER definition needed in the NERC Glossary of Terms?

Anything else we are missing that is needed to cover the MOD-032 SAR scope?

4. Other

a. Next Meeting:

November 30, 2022 | 1:00 – 3:00 p.m. Eastern

b. Other: None

5. Adjournment

Chair adjourned the meeting at 3:01 p.m. Eastern by consent.

Attachment 1

Name	Company	Member/Observer	Date
Ellese Murphy	Duke-energy	Observer	11/8/2022
Zachary Paul Mansell	TVA	Member	11/8/2022
Jonathan Hayes	SPP	Vice Chair	11/8/2022
Jamie Calderon	NERC	NERC Staff	11/8/2022
James	FERC	FERC	11/8/2022
Pranaya Neupane	JEA	Observer	11/8/2022
John Schmall	ERCOT	Chair	11/8/2022
Cho Wang	AES	Member	11/8/2022
Josie Daggett	WAPA	Member	11/8/2022
Patrick Quinn	GREnergy	Member	11/8/2022
Hassan Baklou	SDGE	Member	11/8/2022
Pranaya Neupane	JEA	Observer	11/8/2022
John Skeath	NERC	NERC Staff	11/8/2022
Shuying Zhen	GE	Observer	11/8/2022
Ben Wu	NERC	Secretary	11/8/2022
Doikarinen	ATC LLC	Observer	11/8/2022
Josh Pierce	Southern Company	Member	11/8/2022
Eugene Blick	FERC	FERC	11/8/2022
Shawn Patterson	USBR	Observer	11/8/2022
Sean Erickson	WAPA	Observer	11/8/2022
Stephanie Schmidt	ATC LLC	Observer	11/8/2022
Patrick Dalton	MISO Energy	Member	11/8/2022
Mike Johnson	PGE	Observer	11/8/2022
Alex Stewart	BPA	Member	11/8/2022
Scott Barfield-McGinnis	NERC	NERC Staff	11/8/2022
Mohit Singh	COMED	Member	11/8/2022
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