

# Meeting Notes

## Project 2020-02 Transmission-connected Dynamic Reactive Resources Drafting Team

November 17, 2021 | 10:00 a.m. - 1:00 p.m. Eastern

Conference Call with Web Access

### Administrative

1. **Review NERC Antitrust Compliance Guidelines and Public Announcement**
2. **Determination of Quorum**  
The rule for NERC Standard Drafting Team (SDT) states that a quorum requires two-thirds of the voting members of the SDT to be physically present. Quorum was achieved.
3. **Chair's Remarks - *Fabio Rodriguez, Chair and Ebrahim Rahimi, Vice Chair***
4. **Review Meeting Agenda and Objectives**

### Agenda Items

1. **General Drafting Team (DT) Information - *Chris Larson***
  - a. Confirm DT online training, certificates from each member.
  - b. [Project 2020-02 Transmission-connected Dynamic Reactive Resources \(TCDRR\)](#), related files, roster, extranet site.
  - c. Ensure all members receive access to extranet ([ERO portal](#) and DUO authentication) site.
2. **Introduction by All members Using the DT roster**  
Solicitation for additional DT members (open until December 20, 2021).
3. **Background Information of Project**
  - a. [Project 2020-02 TCDRR - \*F. Rodriguez, C. Larson\*](#)
    - i. Hari Singh, original SAR author from Systems Analysis and Modelling Subcommittee, shared background information about the SAR and fielded questions.
    - ii. The SAR DT asked about the use of the term dynamic. "Dynamic VAR support/compensation" is a commonly used phrase by planners. Dynamic reactive power means the resource's or device's ability to change reactive power output or Power Factor over time.
    - iii. [FERC Order 827 reference](#): *Reactive Power Requirements for Non-Synchronous Generation*, may be a helpful reference for this topic.
  - b. High level discussion of project approach - *F. Rodriguez, C. Larson*

- i. PRC-024: There may be a new ride-through standard drafted, which could replace or supplement PRC-024. Due to this uncertainty, the DT will monitor the status of any SAR brought to the Reliability and Security Technical Committee and Standards Committee.
  - ii. Definition(s) discussion: The main goal of the project is to define TCDRR or a similar term, which can be a combination of below items, in order to describe which assets the Reliability Standards (PRC/MOD) should be applicable for.
    - (1) [BES Inclusion I5](#)
    - (2) Technology type (HVDC or FACTS (SVC, STATCOM))
    - (3) MVA value
    - (4) Operating in a specific control mode: e.g. IBR plant (PV, wind, battery) with voltage source converter, operating in reactive only mode; is this considered generator?
    - (5) Consideration - normally a synchronous generator, but the unit can operate as a synchronous condenser at night. How to handle?
  - iii. Options to organize which assets are TCDRR: Decision Tree (Joel), In-scope/Out of scope table.
  - iv. Scope clarification – determine whether Reactive Resources located at generating plants/IBR plants are considered a part of the generating facility or are they considered an individual Reactive Resource?
- c. Coordination with Projects 2020-06 (MOD-026, MOD-027) and 2021-01 (MOD-025, PRC-019)
- 4. Overview of PMOS - *Linda Lynch and Anthony Westenkirchner, PMOS Liaisons***
- 5. Overview of SDT Process and Q&A with NERC Standards Developer - *C. Larson***
- a. Standard Processes Manual
  - b. SAR phase
  - c. Standard drafting phase
- 6. Review Industry Comments Received**
- a. [Project 2020-02 SAR Comments](#)
  - b. Next steps: Identify 2-3 comment themes and draft responses
- 7. Outreach Coverage**
- Transmission Owners will be the primary registered entity impacted by this change to standards. Develop an outreach method with North American Transmission Forum (NATF), such as a prepared presentation. Determine the best subgroups of NATF to interact with, typically managed based on the topic of presentation.
- 8. Discuss Future Meeting Frequency, Duration, and Times**
- Every 2 to 4 weeks; Mondays 10:00 a.m. – 2:00 p.m. Eastern and Wednesday afternoons, 12:00 – 3:00 p.m. Eastern.