

# Meeting Notes

## Project 2016-04 Modifications to PRC-025-1

June 20 and 27, 2017

Conference Call

### Administrative

#### 1. Introductions

The meeting was brought to order by the chair, J. Schmall at 1:04 p.m. Eastern, Tuesday, June 20, 2017. J. Schmall provided the Standard Drafting Team (SDT or team) with introductory remarks noting that the SDT would review the edits submitted by the team and quality review individuals. Participants were introduced and those in attendance were:

Name	Company	Member/ Observer	6/20	6/27
John Schmall	Electric Reliability Council of Texas, Inc.	Chair	X	X
Mike Jensen	Pacific Gas and Electric Company	Vice Chair	X	X
Juan Alvarez	Caithness Energy	Member	X	X
Walter Campbell	NextEra Energy Resources, LLC	Member	X	X
Jason Espinosa	Seminole Electric Cooperative, Inc.	Member	X	X
Scott Barfield-McGinnis	North American Electric Reliability Corporation	Observer	X	X
Lauren Perotti, Counsel	North American Electric Reliability Corporation	Observer	X	X
Syed Ahmad	Federal Energy Regulatory Commission	Observer	X	X
Ben Davis	Vestas	Observer	X	-
Steven Hataway	Florida Power and Light		X	-
Chris Koteles	ITC	Observer	-	X

Name	Company	Member/ Observer	6/20	6/27
Mel Lacedonia		Observer	X	-
David Marrero-Andino		Observer	X	-
Edwin Orta		Observer	X	-
Raj Prakash	Florida Power and Light	Observer	X	-
Rich Quest	Midwest Reliability Organization	Observer	X	X
Chuck Woods	MidAmerican Energy	Observer	X	X
Various Attendees	North American Generator Forum (Special Session)	Observers	X	-

**2. Determination of Quorum**

The rule for NERC SDT states that a quorum requires two-thirds of the voting members of the SDT. Quorum was achieved as five of the six members were present.

**3. NERC Antitrust Compliance Guidelines and Public Announcement**

NERC Antitrust Compliance Guidelines and public announcement were read by S. Barfield-McGinnis on both calls. There were no questions raised.

**4. Roster Updates**

The team did not review the team roster as no changes occurred.

**Notes**

**1. Respond to Quality Review**

The team discussed the need to get the simulation calculations in before the comment period. S. Barfield-McGinnis responded that the calculations could be done during the comment period and the team might want to have it prepared for the webinar during the comment period. In discussing the simulation method, R. Quest pointed out that the shunt should be placed at the remote end of the line from the generating facility where it connects to the transmission system. Placing the shunt at the transmission system would produce the worst case due to the increased voltage response from the generator if the voltage depression were simulated at the plant. This revealed an issue with the way the Table 1 Option was written to apply a 0.85 per unit voltage at the high-side of the generator step-up (GSU) transformer. The team agreed to modify the Table 1 Option(s) to address the appropriate location.

The team considered informal feedback from the Midwest Reliability Organization (MRO) NERC Standards Review Forum (NSRF) that fuses should be excluded. The team agreed that fuses were not in scope; however, the standard is specifically addressing load-responsive protective relays and there

is no need to include an exemption for fuses. Also, the NSRF feedback argued that the “collector system” referring to the standard Applicability for aggregating dispersed power producing resources should not be in scope. The NSRF position was that the Bulk Electric System (BES) definition as defined by the Glossary of Terms Used in NERC Reliability Standards and the information contained in the NERC BES Reference Document clearly state the collector system is not a BES Element.

The team contended that Elements utilized in the aggregation of dispersed power producing resources were in scope given the construction of the Applicability section of the standard. If the resource is BES (including Blackstart), then the Elements listed in the subsequent Applicability sections were applicable. The NSRF further argued that the NERC defined term “Element” did not include “collector systems,” but the drafting team did not agree.

The team revisited the issue of multiple nacelle breakers in wind turbines, specifically a doubly-fed induction generator. Everyone agreed that they were in scope. Also, the team discussed the similarities and limitations between protection and control systems. There could be confusion over protection elements within control systems which could lead to a lack of clarity in the standard. The SDT agreed that control systems are not in scope of the standard, but recognized that it could raise questions from industry if not specifically excluded.

ITC suggested clarifying whether to switch-on-to-fault (SOTF) schemes should be included in item 1 under Exclusions. The team did not agree that it was needed, but wanted to consider it further. On a follow up call M. Jensen concluded the SOTF was not a loadability issue and not applicable to the standard.

## **2. Next steps**

M. Jensen will confirm the team does not expect a switch-on-to-fault scheme to be applicable to the standard (6/20/17) Response (6/27/17) Parallel line SOTF is set incorrectly (i.e., too low) could close back in. However, this is unlikely, a low probability and not in scope.

S. Barfield-McGinnis will confirm Power Plant document. Also, work with NERC modeling staff to perform the simulations for a plant that is remote to the transmission network. Preferably, use the HQTE scenario.

Post the standard for a 45-day comment period and initial ballot following Standards Committee (SC) authorization to post. Team material is due for SC preliminary review on June 28, 2017.

## **3. Future meeting(s)**

To be scheduled based on the posting date for initial ballot and team availability.

## **4. Adjourn**

The meeting adjourned 2:45 p.m. Eastern, Tuesday, June 27, 2017.