

## Meeting Notes

# Project 2019-04 Modifications to PRC-005-6

September 17, 2021

Conference Call

### Administrative

#### 1. Introductions

The meeting was brought to order by the Chair, Brian Kasmarzik, at 12:31 p.m. Eastern on Friday, September 17, 2021. Participants were introduced and those in attendance were:

Name	Company	Member/ Observer	In-person (Y/N)	Conference Call/Web (Y/N)
Brian Kasmarzik	Ameren Services	Member	N	Y
Steve Turner	Arizona Public Service	Member	N	Y
Devon Tremont	Tauton Municipal Lighting Plant	Member	N	Y
Giuseppe Giannuzzi	Hydro-Quebec	Member	N	Y
Eric Graftaas	Xcel Energy	Member	N	Y
Cesar Huerta	AEP	Member	N	Y
Randy Rhinier	Duke Energy	Member	N	Y
Mark Pratt	Southern Company	PMOS Liaison	N	Y
Laura Anderson	NERC	NERC Staff	N	Y
Lauren Perotti	NERC	NERC Legal	N	Y
David O'Connor	FERC	FERC Observer	N	Y
Daniel Woldemariam	FERC	FERC Observer	N	Y
Deb Steiz	AES	Observer	N	Y

Name	Company	Member/ Observer	In-person (Y/N)	Conference Call/Web (Y/N)
Ryan Copley	Tampa Electric	Observer	N	Y
Louis Guidry	CLECO	Observer	N	Y
Daniel McClintock	Duke Energy	Observer	N	Y
Joseph Stubiz	Bureau of Reclamation	Observer	N	Y
Aaron Dykstra		Observer	N	Y
Kerry LaCoste		Observer	N	Y
Mark Nowakowski	KPMG	Observer	N	Y
Scott Dixon	New Earth Energy	Observer	N	Y
Ryan Strom	Ohio's Electric Cooperatives	Observer	N	Y
Sherry Nedd	Covanta	Observer	N	Y
Ruida Shu	NPCC	Observer	N	Y

**2. Determination of Quorum**

The rule for NERC Standard Drafting Team (SDT or team) states that a quorum requires two-thirds of the voting members of the SDT. Quorum was achieved as 7 of 8 total members were present.

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

NERC Antitrust Compliance Guidelines and public announcement were reviewed by Laura Anderson, NERC staff. There were no questions raised.

## Agenda

### 1. Review of Meeting Notes from Previous Meetings

### 2. Discussion

- a. The SAR DT discussed adding the Xcel RFI of PRC-005-6 as a link in the Unofficial Comment Report. After discussion, the team decided to add the link to the Xcel RFI.
- b. Laura Anderson explained next steps for the SAR development process.

### 3. Action Item Review

- a. The issues the SAR DT wanted to familiarize industry with for the PRC-005 SAR development are: In June of 2016, Xcel Energy submitted a Request for Interpretation (RFI) to NERC seeking clarification on what equipment should be included in the scope of an entity's Protection System Maintenance Program relative to NERC Reliability Standard PRC-005-6. Xcel Energy noted that many modern generator excitation systems have the capability to respond to electrical quantities and initiate trip signals to either the generator lockout or generator output breaker. Xcel Energy asked whether a protection function (if enabled) that is embedded in a generator's excitation system or voltage regulator would meet the definition of Protection System, and therefore be included in the scope of PRC-005-6. The RFI was rejected by the NERC Standards Committee at the recommendation of NERC staff, the standards developer, and leadership of the PRC-005-6 drafting team (DT) for the following reason:

"The generator excitation systems and voltage regulators described in Xcel Energy's RFI are capable of monitoring electrical quantities, such as voltage or current, and responding to those quantities, by causing a trip of the generator in response to these signals. Therefore, it is clear that these embedded protective functions, if enabled, would be included in the scope of Reliability Standard PRC-005-6 as set out in the Applicability section of the standard."

Despite this perceived clarity, the North American Generator Forum (NAGF) received feedback from members indicating that significant confusion still remains throughout the industry regarding the applicability of protective functions inside synchronous generator excitation systems to PRC-005. Consequently, in May 2019, the NAGF submitted a SAR to NERC requesting revisions be made to PRC-005-6 that would provide clear and unambiguous language within the standard pertaining to the applicability of protective functions within an Automatic Voltage Regulators (AVR) and any maintenance requirements (activities and intervals) associated with those protective functions.

Per the standards development process, the SAR was posted and a SAR DT was formed to consider the comments received from industry and modify the SAR as appropriate to establish the project scope (parameters of work) for the future standing drafting team (SDT). In response to industry comments from three postings of the SAR, the SAR DT revised the project scope and proposes the future SDT consider modifying PRC-005-6 to:

- Clarify that BES protective functions enabled within analog/digital AVRs, excitation

systems, and BES protective functions enabled within control systems that respond to measured BES electrical quantities and trip BES Elements either directly or via lockout or auxiliary tripping relays are within the scope of the standard, and include updates to associated maintenance tables as necessary.

- Include new DC supplies (e.g., lithium ion, flow) for Protection Systems in the maintenance tables.
- Include entities registered as UFLS-Only Distribution Providers in the Applicability section to be consistent with changes made to the NERC's FERC-approved Risk-Based Registration.

Additionally, the future SDT should update the PRC-005-6 Supplementary Reference and FAQ to align with all revisions made to the standard.

To provide specificity and remove ambiguity, the future SDT should also consider revising the applicability section of the standard, developing new terms and/or revising existing terms in the NERC Glossary of Terms, adding and/or modifying maintenance activities and intervals in the maintenance tables, and making other modifications as needed.

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

- a. September 21, 2021 – Conference Call

#### **5. Adjourn**

The meeting adjourned at 3:30 p.m. Eastern on September 17, 2021.