

## Meeting Minutes System Protection and Control Subcommittee

February 17, 2016 | 8:00 a.m.–5:00 p.m. Central  
February 18, 2016 | 8:00 a.m.–12:00 p.m. Central

Oncor Electric Delivery  
115 W 7th Street  
Room 3156  
Ft Worth, Texas 76102

Conference Dial-in Information:  
Phone: 1-866-740-1260 | Access Code: 5506033 | Security Code: 021716

### Introductions and Chair's Remarks

Phil Winston brought the meeting to order on February 17, 2016 at 8:00 a.m. CT. P. Winston welcomed the attendees,<sup>1</sup> and offered the opportunity for the attendees to introduce themselves. P. Winston also notified the attendees that he will complete his term as Chair of the SPCS as of June 2016, and that those interested in the Vice Chair position may contact himself or Richard Quest for further information.

### Host Arrangements and Safety

Sam Francis welcomed the attendees, and provided notification of emergency egress and first aid plans.

### NERC Antitrust Compliance Guidelines and Public Announcement

Katherine Street reviewed the NERC Antitrust Compliance Guidelines and announced that the meeting was public.

### Agenda Items

#### 1. Review and Approval of Agenda

P. Winston reviewed the Agenda Items, the Agenda Items were approved, with the addition of an Agenda Item to discuss reporting of capacitor bank neutral unbalance protection system operations and misoperations, as proposed by George Wegh.

#### 2. Approval of November 11-12, 2015 Meeting Minutes

The meeting minutes from the November 11-12, 2015 SPCS meeting were approved, with a revision to reflect Joe Uchiyama's meeting attendance.

#### 3. Unit Auxiliary Transformer Protection

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<sup>1</sup> For a list of meeting attendees, see Attachment 1.

The System Protection and Control Subcommittee (SPCS) requested Planning Committee volunteers to review of the NERC SPCS Unit Auxiliary Transformer Overcurrent Relay Loadability During a Transmission Depressed Voltage Condition report (UAT Report). Brian Evans-Mongeon, Carl Turner, Gary Brownfield, and Herb Schrayshuen reviewed the UAT Report and provided comments for SPCS consideration. During the meeting, the SPCS considered and addressed the comments submitted by the reviewers. The SPCS revised the UAT report draft as appropriate, and created a comment response document that consolidates the comments received, along with the SPCS responses to those comments, to include document revisions. The SPCS is planning to submit the UAT report to the Planning Committee for approval in March 2016.

#### **4. Review SPCS library of Documents for potential inclusion in NERC library and/or updating**

Bob Cummings led a discussion reviewing documents produced by the SPCS to evaluate the potential for including those documents in a planned NERC library of technical documents. To facilitate the discussion and review, NERC staff drafted a spreadsheet which lists the SPCS documents currently posted on the NERC SPCS website. K. Street will distribute the spreadsheet to the SPCS subteam tasked for initial review and recommendations (Phil Winston, Jonathan Sykes, Bill Miller, and Sam Francis) with a request that they provide comments and/or suggested revisions if needed following the meeting. K. Street will document and compile any responses received, and distribute to the SPCS for further review.

#### **5. Review of PRC Standards Under Development**

The SPCS discussed Reliability Standards Development Projects that are addressing PRC-001 and PRC-027. The complete retirement of PRC-00-1.1(ii) is contingent upon the approval of both PRC-027-1 from Phase 1 (Project 2007-06) and PER-006-1 from Phase 2 (Project 2007-06.2). The Standards Drafting Team held an industry technical conference on February 9, 2016 resulting in attendee consensus that a new personnel standard (i.e., PER-006-1) should be created to address the specific training objective of PRC-001-1.1(ii), Requirement R1.

#### **6. Protection philosophy for devices such as synchronous condensers, SVCs, STATCOMS, etc.**

D. Till initiated a discussion of the protection philosophy for devices such as synchronous condensers, SVCs, STATCOMS, etc. During the discussion it was noted that users of these devices need to be knowledgeable as to how the manufacturer-supplied protection schemes operate. Also, by an example presentation, it was noted that the primary and secondary station services sources to these devices needs to consider the impact of the loss of a source.

#### **7. Reporting of Capacitor Bank Neutral Unbalance Protection System Operations/Misoperations<sup>2</sup>**

G. Wegh of Eversource (NPCC Region), initiated a discussion of the issue of Reporting of Capacitor Bank Neutral Unbalance Protection System Operations/Misoperations. The SPCS reviewed a request from G. Wegh to provide interpretation regarding the proper reporting of Capacitor Bank Neutral Unbalance Protection System Operations and Misoperations to NERC, noting that there has been some confusion

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<sup>2</sup> Agenda item 7 added during meeting discussion of Agenda Item 1.

within the various regions as to whether operation of this type of protection system is reportable. The specific issue is whether capacitor bank unbalance protection is considered Bulk Electric System (BES) protection since its primary purpose is equipment protection and not isolation of a fault. The SPCS noted that the NERC glossary definition of a protection system generally includes "protective relays that respond to electrical quantities" and does not limit to fault sensing relays. By this definition, BES capacitor bank unbalance protection operations and misoperations should be reported to NERC as part of the normal quarterly reporting. This guidance is also consistent with guidance previously provided by NERC staff and in the template instructions.

## 8. **Future Meetings**

### a. In-Person Meeting:

- Next in-person meeting planned for summer 2016, month to-be-determined.

### b. Interim Conference Calls:

- None planned

## 9. **Adjourn**

P. Winston thanked members for their participation and adjourned the meeting.

## Attachment 1

Participant	Entity
Philip B Winston (Chair)	Southern Company
Richard P. Quest (Vice Chair)	Midwest Reliability Organization
Samuel Francis	Oncor Electric Delivery
Mark Gutzmann	Xcel Energy, Inc.
George Wegh	Eversource Energy
William J. Miller	Exelon Corporation
Miroslav Kostic	Hydro One Networks, Inc.
Forrest Brock	Western Farmers Electric Coop.
William T Crossland	ReliabilityFirst
David Greene	SERC Reliability Corporation
Hai Quoc Le	Northeast Power Coordinating Council
David P Penney	Texas Reliability Entity, Inc.
Jonathan Sykes	Pacific Gas and Electric Company
Joe T. Uchiyama	U.S. Bureau of Reclamation
Jeffrey Iler	American Electric Power
Matthew Pacobit	Associated Electric Cooperative, Inc.
Thomas Teafatiller	Southwest Power Pool RE
Katherine Street (NERC Staff Coordinator)	NERC
David Till (NERC Staff)	NERC

Participant	Entity
Brad Gordon(NERC Staff)	NERC
Bob Cummings (NERC Staff)	NERC
Rich Bauer (NERC Staff)	NERC
Tom Bradish (FERC Staff)	FERC
Syed Ahmad (FERC Staff)	FERC