

Southwest Power Pool
SYSTEM PROTECTION AND CONTROL WORKING GROUP
MEETING

October 18, 2017
KCPL Offices
Kansas City, MO

• M I N U T E S •

Agenda Item 1: Administrative Items

Call to Order and Introductions

Chair, Louis Guidry, called the meeting to order at 8am and welcomed everyone. There were 30 participants, 25 in person and 5 via webex. (Attendance List Attached).

Proxies

Derek Vonada proxy for Mathew Thykkuttalhil

Approve minutes of previous meetings (Action Item)

The minutes for the July, 2017 meeting were reviewed and unanimously approved

Approve agenda

The agenda for the meeting was reviewed and approved.

Agenda Item 2: Review of Past Action Items

Doug Bowman reviewed the action items through item 87 and noted status updates.

Agenda Item 3: NERC SPC Update

Forrest Brock reviewed the discussions from the last meeting of the NERC System Protection and Control Subcommittee (SPCS) held July 26th at Hydro One's facility in Toronto, Canada.

At that meeting, Forrest made a motion to accept Louis Guidry as a voting member on the SPCS, representing the SPP region. The motion was approved. Others were brought on as voting members as well, including an "Industry Expert". The SPCS set the membership term for Industry Experts to 3 years. Current SPCS Chairperson, Rich Quest, announced his early resignation as chair due to retirement from MRO. Mark Gutzman is now chair and the vice chair position is open for nominations at this time.

The draft versions for the PRC-023 and PRC-024 guidance documents were reviewed and discussed. A conference call for final discussion of the guidance documents was scheduled and held on August 25, 2017 from 12:00-2:00 PM EST. During and following this call, the group finalized the draft guidance document and Rich Quest presented them to the NERC Planning Committee (PC) during its summer meeting. The PC is now reviewing these documents for revision and/or approval. The SPCS will begin work on the PRC-019 guidance document when it reconvenes.

The SPCS was debriefed on the approval of the IEEE I-25: Commissioning Testing document and the letter of gratitude sent to the group's chair from Rich Quest on behalf of the NERC

SPCS. The SPCS agreed that the IEEE document provided on commissioning is adequate, and this action item can be considered complete.

Other SPCS items on the PC work plan were reviewed. Item 2, “Review IEEE Stationary Battery SAR concerning PRC-005”, has been submitted to the PC for review. This SAR was sponsored by the IEEE Stationary Battery Committee in regards to battery testing as prescribed by PRC-005. The SAR specifically asserted that internal ohmic testing is not an adequate method for determining a battery’s capacity to perform as designed. The SPCS noted the SAR failed to recognize the testing is only one half of the equation for internal ohmic testing specified by PRC-005 – the other half being analysis and trending of the test results to the battery baseline. Echoing the SPCS position, Louis Guidry commented that analysis and trending of most recent ohmic test values vs battery baseline is a good method for determining the need to perform further testing, such as a load test, or replace the battery.

At this time, there are no future SPCS meetings scheduled. NERC staff is reviewing the SPCS work plan.

Agenda Item 4: NERC Activity Update

Shannon Mickens gave an update of plans that SPP has for 2018. His group will be rolling out programs to get the working groups and SMEs more involved. He noted that if you register for the SPP calls you will get the call notes even if you cannot be on the call.

It was noted that RAS approval as part PRC-012 will now be the responsibility of the PC. It is not known at this point the role of the SPCWG. More to come later on this. The effective date of this standard will be July 1, 2021.

Agenda Item 5: SPP CAS Update

Scott Jordan noted the PRC-026 list is posted. Comments from members have been received recommending additional data on the request should be included. The list will be revised and reposted for further comment within the next few weeks.

The annual data request for PRC-006 has been sent delivered.

The UFLS study will be performed in 2019. Louis asked if the possibility of MTWG joining SPP would necessitate an early study. It was noted that it is a separate grid separated from SPP by DC ties. An early study will not be required.

Agenda Item 6: EPRI Project 40-018

Adrian Kelly, EPRI, presented the PSET tool to the group. Louis asked if the group believed the tool would be beneficial and the response was that it indeed would help. Doug and EPRI will discuss how it could be incorporated seeing as SPP doesn’t have CAPE or ASPEN. Doug will report back to the group in the January meeting.

Agenda Item 7: Short Circuit Models

Tom Miller talked about CAPE and PSS/E models. Follow up call occurred...still an on-going discussion. Intention is that CAPE will give us a report. They do see problems in the short circuit models. Zero-impedance elements are problematic. CAPE also recognizes that connection codes in PSS/E are problematic when converting to CAPE. CAPE found a large

island (14000 buses) that seems to be the biggest problem which needs to be discussed with SPP. DB will be discussing this within SPP. No other members are seeing issues.

Agenda Item 8: Criteria Section 8 Review

The Table of Contents indicates there is a paragraph 8.1 but there isn't one in the document body. Forrest and Ken will go through the remaining sections of criteria 8 to determine if there's anything else that needs to be removed. They will report to the group in January.

Agenda Item 9: Misoperations

- a) Misoperations Report: Thomas presented and reviewed the member misoperations for Q2 2017.
- b) Misoperations Summit – Jim Gunnell gave a preview of the Summit slides to get feedback from the group. The misoperations identification tool was presented, which will be used to give the user confidence in the data categorization and for consistency across member areas.

Jennifer recommended that the Misoperations Subcommittee be moved beneath the SPCWG since the group should be more technical going forward. Louis volunteered to review and revise the existing charter to reflect what is now needed since it will be under the SPCWG.

- c) Review of Misoperations:
Misoperations were not reviewed at the meeting. It was decided that tomorrow's Misoperations Summit would provide more direction going forward for this.

Agenda Item 10: Discussion of Future Meetings (Proposed Meeting Dates)

- Future Meeting Dates and locations
 - January 24,25 Dallas, TX, Embassy Suites Bass Pro
 - April 25, 26 Little Rock SPP Office
 - July 25, 26 Denver, CO, Downtown Xcel Office
 - October 24,25 Dallas, TX, Downtown AEP Office

Agenda Item 11: Closing Administrative Duties

The action item list was updated and summarized by Doug Bowman. Louis asked everyone to think about future topics for upcoming meetings. John Allen suggested that the TPL-001-5 be reviewed as it pertains to the single point of failure. PRC-012 will need to be discussed as well. The meeting was adjourned.

Respectfully Submitted,

**Douglas Bowman
SPCWG Staff Secretary**

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• ATTENDANCE LIST •

Name	Company
David Wheeler	Xcel Energy
Randall Wilmeth	Xcel Energy
Tom Miller	ITC
MICHAEL FLECK	ITC
ADRIAN KELLY	EPRI
Todd Moore	KCPL
Louis C. Cassidy	Cleco
Jonathan Hayer	Southwest Power Pool
Derek Vondrak	SEPC
Allen Halling	KCPL
John Anderson	Western Energy
Shawn Jacobs	OG+E
John HARE	OG+E
Tom Kurasimow	OG+E
NATE MORRIS	EMPIRE DISTRICT ELECTRIC
John Allen	City Utilities
Doug Jackson	GRDA
Dale Bowman	SPP
Thomas Teafatiller	SPP RE
Jennifer Flaudemeyer	KCPL/RCWG
David E. Swindell	Empire District Electric
Ken Zellefrow	City Utilities
Steve Wadas	NPPD
FORREST BROCK	WFEC
Juan Villar	FERC
<u>On The Phone:</u>	
Rick Guden	AEP
Shawn McFarland	EPRI
Liz Schroeder	MKEC
Shannon Mickens	SPP
Scott Jordan	SPP