

Meeting Minutes

System Protection and Control Working Group

Conference Call

February 10, 2022 | 1:00 – 4:00 p.m. Eastern

Agenda Items

1. Call to Order

- a. NERC Antitrust and Personal Conduct Statement Ed Ruck
- b. Opening Remarks Bill Crossland
 - i. Quorum established 13:09

2. Administrative

- a. Review and Approve of [Minutes 4 November 2021 Meeting](#) **Bill Crossland**
 - i. Eric U. moved to approve minutes, Bill M. seconded, motion carries
- b. Agenda Review/Revisions
 - i. Motion to approve agenda as presented – George W., John G. seconded. Motion carries

3. Liaison Updates

- a. IEEE PSRC **Mike Thompson**
 - i. Mike Thompson will send a write-up summary for the minutes
- b. IRPWG **Manish Patel**
 - i. IRPWG is focused on EMT modeling and simulations, grid forming tech w.r.t. IBRs. IRPWG is developing a SAR regarding PRC-004 or a new standard that focuses on analyzing, reporting, and correcting the abnormal performance of BES generating resources.

4. February 2021 Cold weather recommendation discussion **All**

- a. [Review action Items assigned to SPCWG](#)
 - i. A consideration needs to be made to ensure that while you work to maintain the system, you also are not using up blade life for a single event at a given frequency. It might be better to have them be able to withstand two such frequency events.
 - (1) Recommendation 13: This recommendation will probably impact PRC-006 and/or PRC-024. As a result, the SPCWG will review and provide a recommendation to the GADS user's group on what type of information/aplication would be useful to evaluate how units trip due to high rate-of-change of frequency conditions or extended low

frequency conditions. The GADS user's group would then be responsible for the implementation of that recommendation or not. The SPCWG will provide a response by June 10, 2022

- (2) Recommendation 22: The SPCWG will review PRC-006-5 and determine if there is a need to make a change to PRC-006-5 to account for time based underfrequency generation tripping and provide a recommendation on what those changes could entail by August 12, 2022.
- (3) The SPCWG is willing to provide expertise, comments, and feedback to the group that analyzes the previous low frequency disturbances from a protection and control perspective. The SPCWG is also willing to assist in the development of any SAR or standard that might result from this analysis. However, these look to be a system planning issue that could benefit from SPCWG assistance, so a better result might occur with the SPCWG in a support, rather than lead position on this recommendation.

5. RISC work plan review

All

- a. [Section 1.2 Data, Modeling, and assessment requirements](#)
 - i. The SPCWG acknowledges that this is a growing issue is willing to assist whatever group takes the lead. This will allow us to inform the planning and short circuit modeling groups on what is needed by protection and control groups in order to develop effective relay settings. There is also a need to identify what types of studies need to be performed to understand how the system will perform under high IBR, low IBR, and mixed generation scenarios. In support of these issue, the SPCWG has thrown its support behind IEEE C-45 to help develop accurate models. SPCWG is also developing an Inter-Entity Short Circuit model paper that will also help ensure that entities properly incorporate neighboring models for their internal studies.

6. Large Transformer Backup Protection

All

- a. [Reliability Guideline or Technical Reference](#) discussion
 - i. Mike T. motions and Jeff I. seconded a motion that the current document be renamed a Technical reference document and that the SPCWG review the subject matter to determine if there is a need to create a new Reliability Guideline that would address a broader spectrum of long lead items and backup protection. – Motion carries.

Other agenda items are tabled until the next meeting

7. SPCWG Organizational Updates

Bill Crossland

- a. [SPCWG Promotion](#)
- b. [SPCWG Governance Document](#)
- c. [SPCWG Roster](#)

8. Inter-Entity Short Circuit Model*

Lynn Schroeder

- a. [Review of work](#) and update on progress
- b. [Model Comparison sheet](#)

9. Compliance Implementation Guidance **Rich Bauer**

- a. Update on the PRC-019-2 Compliance Implementation Guidance
- b. Update on the PRC-024-3 Compliance Implementation Guidance

10. SAR PRC-025-2 Hybrid Plants **Rich Bauer**

- a. Review and discuss plan to move forward

11. FERC 881 discussion (LINK TO FERC ORDER) **All**

- a. Review and determine what impacts this might have and is an adjustment to PRC-023 necessary

12. SPCWG Strategy session **All**

- a. [Commissioning Technical Reference](#)

13. Round Table Discussion **All**

14. Future Meetings **All**

Ensure future meetings do not conflict with US or Canadian holidays

Future SPCWG and Subgroup Meetings		
Dates	Time (Eastern)	Location
February 10, 2022	1:00-4:00 p.m.	WebEx
April 14, 2022	1:00-4:00 p.m.	WebEx
June 9, 2022	1:00-4:00 p.m.	WebEx
August 11, 2022	1:00-4:00 p.m.	WebEx
October 13, 2022	1:00-4:00 p.m.	WebEx
December 8, 2022	1:00-4:00 p.m.	WebEx

Adjourn – Chair Bill Crossland