

**SOUTHWEST POWER POOL**  
**SYSTEM PROTECTION AND CONTROL WORKING GROUP MEETING**

October 14, 2020 1:00PM - 5:00PM  
October 15, 2020 8:00AM - 12:00PM

Net Conference

## **SUMMARY OF MOTIONS AND ACTION ITEMS**

### **MOTIONS:**

1. Zachary Sharp, SPCWG Staff Secretary, facilitated a nomination period and subsequent voting period via confidential email in August 2020 for the 2021-2022 SPCWG Chair position. John Anderson was the lone nominee and was affirmed by the SPCWG unanimously. A recommendation has been made to the Corporate Governance committee and is awaiting review.
2. Zachary Sharp, SPCWG Staff Secretary, facilitated a review and voting period for the System Protection and Control Advisory Group scope via email in September 2020. The scope was approved unanimously. At the October 2020 MOPC meeting, MOPC voted to approve the SPCAG scope as part of the consent agenda.

### **ACTION ITEMS:**

- #155: Zachary Sharp to work with Bob Soper and Steve Wadas to contact individuals on the PRC-012-2 drafting team to inquire as to the intent of 4.1.5.
- #156: Zachary Sharp to work with Jeff Beasley in contacting the staff secretaries of the ORWG, TWG, and GIUF to get on upcoming agendas and present on the Three Terminal Line Whitepaper.

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## **MINUTES**

### **AGENDA ITEM 1 – ADMINISTRATIVE ITEMS**

SPCWG Chair Steve Wadas called the meeting to order at 1:06 p.m. David Wheeler of Xcel Energy gave his proxy to Randall Wilmeth of Xcel Energy. The attendance list for both days is being included in the attachments.

A Motion to approve July 22-23, 2020 meeting minutes as submitted made by Ken Zellefrow, David Oswald seconded. The motion passed unopposed.

Jeff Beasley requested that a new agenda item (#11) be added to discuss documentation of PRC-024. Motion to approve the October 14-15, 2020 agenda as is was made by Lynn Schroeder, Jeff Beasley seconded. The motion passed unopposed.

### **AGENDA ITEM 2 – ANTITRUST STATEMENT**

Zachary Sharp read the SPP Antitrust Statement.

### **AGENDA ITEM 3 – REVIEW OF PAST ACTION ITEMS**

Zachary Sharp reviewed the past action items. Items #153 and #154 were closed. All other action items correspond to agenda topics for the current meeting.

### **AGENDA ITEM 4 – RAS REDUNDANCY REQUIREMENTS**

Bob Soper discussed RAS redundancy requirements. PRC-012-2 R4 is not well written, tying redundancy requirements back to TPL-001. TPL-001-5 footnote 13 gives further guidance on redundancy requirements. Zachary Sharp took an action item to work with Bob Soper and Steve Wadas to contact individuals on the PRC-012-2 drafting team to inquire as to the intent of 4.1.5.

## **SYSTEM PROTECTION AND CONTROLS WORKING GROUP MINUTES 10/14-15/2020**

### **AGENDA ITEM 5 – THUNDERHEAD RAS UPDATE**

Tom Kay from Invenergy gave an update on the Thunderhead RAS. The TWG approved the RAS on 8/4/2020. On 8/6/2020 the ORWG voted to postpone approval until more was known about the Holt Substation buildout. The 195 MW supervision was removed to allow for SPP Operations to correctly account for the RAS. The group discussed the redundancy of the DC Supply at Thunderhead; Tom is going to follow up on a few questions from the group concerning monitoring of open cells and response time.

### **AGENDA ITEM 6 – OGE AUDIT UPDATE**

Shawn Jacobs of OGE gave an update on a recent virtual MRO audit, sharing his experience and giving general advice on having processes in place and maintaining documentation. The audit was documentation focused. John Anderson agreed to share a Westar process document for selecting buses relative to PRC-002 at a future meeting.

### **AGENDA ITEM 7 – MRO PRS UPDATE**

Bob Soper gave an update on the August 11<sup>th</sup>, 2020 MRO PRS meeting. Bob offered to share with the group a whitepaper on Breaker Low SF6 Gas Philosophy once it is available.

### **AGENDA ITEM 8 – NERC SPCS UPDATE AND LESSONS LEARNED**

Lynn Schroeder gave an update on the September 2<sup>nd</sup>, 2020 SPCS meeting and covered NERC Lessons Learned.

### **AGENDA ITEM 9 – SPP NERC UPATE**

Shannon Mickens gave a NERC update, covering the NERC SPIDERWG September meeting, RSTC September meeting and an APSC update. Additional information is available in the meeting background materials.

### **AGENDA ITEM 10 – SPP MINIMUM DESIGN STANDARDS UPDATE**

John Anderson gave an update on the ongoing work to make changes to the SPP Minimum Design Standards. John is still working on the rewrite and will share with the group at a later time.

## **AGENDA ITEM 11 – PRC-024 (GENERATOR FREQUENCY AND VOLTAGE PROTECTED RELAY SETTINGS) DOCUMENTATION DISCUSSION**

Agenda Item 11 was added at the start of the meeting as requested by Jeff Beasley. Jeff Beasley led a discussion on PRC-024. The group discussed what type of documentation they maintain for PRC-024 to demonstrate compliance. The group pointed Jeff to a Compliance Guidance document for PRC-024-2.

## **AGENDA ITEM 12 – THREE TERMINAL LINE WHITE PAPER DISCUSSION**

Jeff Beasley led a discussion on the state of the Three Terminal Line White Paper. The group decided to drop the recommendation, and present the white paper to ORWG, TWG and GIUF (Generator Interconnection User Forum). Based on feedback from those groups, the SPCWG will determine next steps. Zachary Sharp took an action item to work with Jeff in contacting the staff secretaries of the ORWG, TWG, and GIUF to get on agendas.

## **AGENDA ITEM 13 – SPCWG CHAIR ELECTION UPDATE**

Zachary Sharp gave an update on the SPCWG Chair election. John Anderson's nomination is scheduled to go in front of the Corporate Governance Committee November 2020. Zachary will wait until the BOD confirms the nomination before soliciting nominations to fill the open Vice Chair position.

## **AGENDA ITEM 14 – DISCUSSION OF FUTURE MEETINGS**

2021 Dates and Locations Determination

- 2/9-10/2021 (Net Conference)
- 5/11-12/2021 (Omaha, OPPD)
- 8/10-11/2021 (Net Conference)
- 11/9-10/2021 (Denver, Xcel)

## **AGENDA ITEM 15 – CLOSING ADMINISTRATIVE DUTIES**

Zachary Sharp reviewed the new and open Action Items.

The group discussed topics for future meetings:

- Protection in your shop: OG&E PMUs
- NERC Lessons Learned
- SPP Members Lessons Learned: Evergy Misoperation
- PRC-002 Step 8 Attachment 1 Bus Selection (John Anderson)
- MRO PRS Update (Bob Soper)

- TWG Action Item related to Acceptable Use of RAS
- Jeff Beasley to update group on discussions with ORWG, TWG and GIUF on the Three Terminal Line Whitepaper
- Report from CAPE Conference, Invertor Based Fault Currents (Chris England)
- SF6 Breaker Presenation, Ruptured Disc Failure (Steve Wadas)
- PRC-004 Data Gathering Integration Design (Jeff Beasley, May 2021)

Steve Wadas adjourned the meeting at 11:52.

Respectfully Submitted,

Zachary Sharp

SPCWG Staff Secretary

## SUMMARY OF ATTACHMENTS

Agenda (pg. 7-8)

Attendance List (pg. 9-10)

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**AGENDA**

1. Administrative Items.....Steve Wadas
  - a. Call to Order
  - b. Proxies
  - c. Approve minutes of July 22-23, 2020 meeting
  - d. Approve agenda
2. Antitrust Statement.....Zachary Sharp
3. Review of Past Action Items.....Zachary Sharp
4. RAS Redundancy Requirements .....Bob Soper
5. Thunderhead RAS Update.....Tom Kay
6. OGE Audit Update.....Shawn Jacobs
7. MRO PRS Update.....Bob Soper
8. NERC SPCS Update and Lessons Learned.....Lynn Schroeder
9. SPP NERC Update.....Shannon Mickens
10. SPP Minimum Design Standards Update.....John Anderson
11. Three Terminal Line White Paper Discussion.....Jeff Beasley
12. SPCWG Chair Election Update.....Zachary Sharp
13. Discussion of Future Meetings.....Steve Wadas
  - 2/9-10/2021 (Net Conference)
  - 5/11-12/2021 (Omaha, OPPD)
  - 8/10-11/2021 (Net Conference)
  - 11/9-10/2021 (Denver, Xcel)

14. Closing Administrative Duties.....Steve Wadas

- a. Summarize Action Items
- b. Discuss upcoming meeting topics
- c. Adjourn meeting



Attendance:

Name	Role	Company	7/22/2020	7/23/2020
Steve Wadas	SPCWG Chair	NPPD	✓	✓
John Anderson	SPCWG Vice Chair	Evergy	✓	✓
Bob Soper	SPCWG Member	WAPA	✓	✓
Chris Angland	SPCWG Member	OPPD	✓	✓
David Oswald	SPCWG Member	Liberty Utilities	✓	✓
David Wheeler	SPCWG Member	Xcel Energy		
Randall Wilmeth	David Wheeler Proxy	Xcel Energy	✓	✓
Forrest Brock	SPCWG Member	WFEC	✓	✓
Jeff Beasley	SPCWG Member	GRDA	✓	✓
Ken Zellefrow	SPCWG Member	City Utilities	✓	✓
Lynn Schroeder	SPCWG Member	Sunflower	✓	✓
Ryan Godwin	SPCWG Member	AEP		
Shawn Jacobs	SPCWG Member	OG&E	✓	✓
Zachary Sharp	SPCWG Staff Secretary	SPP	✓	✓
Gayle Nansel		WAPA-UGPR		✓
Jeff McDiarmid		SPP	✓	✓
John Allen		City Utilities	✓	
John Hare		OG&E	✓	✓
Jonathan Hayes		SPP	✓	✓
Louis Guidry		CLECO		✓
Marc Gomez		SWPA	✓	

Matthew Thykkuttathil		Sunflower	✓	✓
Mike Buyce		CU		✓
Paul Mehlhaff		Sunflower	✓	✓
Randy Van Allen		Midwest Energy	✓	
Shannon Mickens		SPP	✓	✓
Tom Kay		Invenergy	✓	
Trey Rosel		SPP	✓	✓
Matt Boersema		WFEC	✓	
Cesar Martinez			✓	
Michael Fleck			✓	✓
Danny Johnson			✓	



