

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

**April 15, 2020 1:00PM - 5:00PM  
April 16, 2020 8:00AM - 12:00PM**

**Net Conference**

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

1. Motion to approve January 15-16, 2020 meeting minutes in Dallas as submitted made by Chris England, Shawn Jacobs seconded.
2. Motion to approve agenda as is made by Ken Zellefrow, John Anderson seconded.
3. John Anderson took an action item (149) to provide updates to the Minimum Transmission Design Standards for Competitive Upgrades, and follow up with Doug Bowman to discuss who owns the document and what the approval process should be.
4. Ken Zellefrow and Lynn Schroeder took an action item (150) to mark up the spreadsheet (RFI OP – 103, columns E and G for PRC-004) and submit to MRO.
5. A motion to accept the UFLS Exemption Metric proposal language as edited was made by Ken Zellefrow, Lynn Schroeder seconded. Steve Wadas initiated a verbal vote which passed unanimously.
6. Steve Wadas and Jonathan Hayes took an action item (151) to add the additional UFLS Exemption Metric language to the UFLS plan

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## **MINUTES**

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

SPCWG Chair Steve Wadas called the meeting to order at 1:04 p.m. There were no proxies. The attendance list for both days is being included in the attachments.

Motion to approve January 15-16, 2020 meeting minutes in Dallas as submitted made by Chris Angland, Shawn Jacobs seconded.

Motion to approve agenda as is was made by Ken Zellefrow, John Anderson seconded.

Steve Wadas and Zachary Sharp briefly discussed the topic of a potential MOPC reorganization, which was previously introduced at the April MOPC. The System Protection & Control Working Group may become the System Protection & Control Advisory Group. Further discussion will take place during future meetings. The MOPC Reorg presentation is available on spp.org as part of the April 2020 MOPC background materials.

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

Zachary Sharp read the SPP Antitrust Statement as found in the footnotes of the agenda.

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

Zachary Sharp reviewed the past action items. Items 136, 147 and 148 were closed. Three new action items were added (see attached).

### **AGENDA ITEM 4 – COVID-19**

The group had a short discussion on the impacts of COVID-19, and how the pandemic has affected work. Many companies are deferring long term capital projects where facilities would be inoperable for an extended amount of time (two weeks or longer). Employees are working from home where applicable.

## **SYSTEM PROTECTION AND CONTROLS WORKING GROUP MINUTES**

### **4/15-16/2020**

#### **AGENDA ITEM 5 – SPP NERC UPDATE**

Shannon Mickens went over the presentation provided in the background materials. Brett Burford mentioned that PRC-002 states to "Identify busses you own", but that IPP's are left off the list. Shannon commented that when a SAR becomes available for review to please comment. Shannon was asked to share the Review of NERC Reliability Standards white paper, which was disseminated to the group via email during the meeting.

#### **AGENDA ITEM 6 – NERC SPCS UPDATE**

Lynn Schroeder went over the presentation provided in the background materials. Bret Burford asked who is responsible for providing data, commenting that it is troublesome getting data from facility owners DERs. Shannon pointed out that the MOD32 SAR addresses this issue.

#### **AGENDA ITEM 7 – CROSSROADS-SAGAMORE RAS UPDATE**

David Wheeler updated the group on the status of the Crossroads-Sagamore RAS. MOPC voted on the recommendation to approve the RAS at their April 2020 meeting. The vote passed with eleven abstention and four votes against.

#### **AGENDA ITEM 8 – PROTECTION IN YOUR SHOP (PRC-027-2 APPROACH)**

Chris Angland introduced Zach Johnston (Senior Protection Engineer) to go over the presentation. Zach discussed OPPD's approach to Fault Study Tracking using CAPE.

#### **AGENDA ITEM 9 – SPP MINIMUM DESIGN STANDARDS DISCUSSION**

John Anderson reviewed the materials provided. John Anderson took an action item to provide updates to the Minimum Transmission Design Standards for Competitive Upgrades, and follow up with Doug Bowman to discuss who owns the document and what the approval process should be. Doug was the Staff Secretary of the Minimum Design Standards Task Force, the group that originally developed the language, and which has not convened since 2016.

#### **AGENDA ITEM 10 – PRC-002-2 STANDARD APPLICATION GUIDE DISCUSSION**

Steve Wadas reviewed a PRC-002-2 Standard Application Guide (SAG) developed by MRO members. The SAG is to clarify Fault Recorder (FR) trigger settings requirements. The SAG focuses on trigger setting requirements when using protective relays to meet PRC-002 requirement.

## **AGENDA ITEM 11 – PRC-004-5 R2 DISCUSSION**

Ken Zellefrow led a discussion on PRC-004-5 R2, looking for consensus among the group as to the intent and meaning of sub-requirement 2.2. The group agreed that the intent of sub-requirement 2.2 is “Did the interrupting devices operate on backup protection for another entities Element” verses “Does the interrupting device provide back protection for another entity’s Element”. The group agreed that if the analysis of the breaker operation indicates that none of the protection elements caused the interrupting device to operate, then notification is not required. Ken Zellefrow and Lynn Schroeder took an action item to mark up the spreadsheet (RFI OP – 103, columns E and G for PRC-004) and submit to MRO.

## **AGENDA ITEM 12 – UFLS EXEMPTION METRIC DISCUSSION**

Steve Wadas went over the draft language provided in the background materials. The group suggested a few edits which were annotated (see attachments for final version). A motion to accept the language as edited was made by Ken Zellefrow, Lynn Schroeder seconded. Steve Wadas initiated a verbal vote which passed unanimously. Steve Wadas and Jonathan Hayes took an action item to add the additional language to the UFLS plan.

## **AGENDA ITEM 13 – DISCUSSION OF FUTURE MEETINGS**

July 22 - 23, 2020 Denver, Xcel Office

October 14 - 15, 2020 Tulsa, AEP Office

In person meetings will remain as scheduled for now. Zachary Sharp and Steve Wadas will keep an open discussion with meeting hosts to determine if and when to convert in person meetings to net conference format.

## **AGENDA ITEM 14 – CLOSING ADMINISTRATIVE DUTIES**

Zachary Sharp reviewed the new and open action items.

The group discussed topics for future meetings:

- 3 Terminal Line White Paper (Jeff Beasley)
- RAS follow up, PC creating schedule based on last MRO review
- OPPD private fiber on OPGW
- Traveling Wave Relays (400, 411L)
- Technical reference, Invertor Based Resources

- Upcoming Standards: PRC-027 Process Document (Steve Wadas)
- NERC Lessons Learned (Lynn Schroeder)

Steve Wadas adjourned the meeting.

Respectfully Submitted,

Zachary Sharp

SPCWG Staff Secretary

## SUMMARY OF ATTACHMENTS

Agenda (pg. 7-8)

Attendance List (pg. 9)

Approved UFLS Exemption Metric Proposal Language (pg. 10)

SPCWG Open Action Items (pg. 11)

**SOUTHWEST POWER POOL, INC.**  
**SYSTEM PROTECTION AND CONTROL WORKING GROUP MEETING**

April 15, 2020 1:00PM - 5:00PM CDT  
April 16, 2020 8:30AM - 12:00PM CDT

**Net Conference**

**AGENDA**

1. Administrative Items.....Steve Wadas
  - a. Call to Order
  - b. Proxies
  - c. Approve minutes of January 15-16, 2020 meeting
  - d. Approve agenda
2. Antitrust Statement.....Zachary Sharp
3. Review of Past Action Items.....Zachary Sharp
4. COVID-19.....All
5. SPP NERC Update.....Shannon Mickens
6. NERC SPCS Update.....Lynn Schroeder
7. Crossroads-Sagamore RAS Update.....David Wheeler
8. Protection in Your Shop (PRC-027-2 Approach).....Chris Angland
9. SPP Minimum Design Standards Discussion.....John Anderson
10. PRC-002-2 Standard Application Guide Discussion.....Steve Wadas
11. PRC-004-5 R2 Discussion.....Ken Zellefrow
12. UFLS Exemption Metric Discussion.....Steve Wadas
13. Discussion of Future Meetings.....Steve Wadas
  - a. July 22-23, 2020 Denver, Xcel Office
  - b. October 14-15, 2020 Tulsa, AEP Office

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

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



Attendance:

Name	Role	Company	4/15/2020	4/16/2020
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	✓	✓
Ken Zellefrow	SPCWG Member	City Utilities	✓	✓
Lynn Schroeder	SPCWG Member	Sunflower	✓	✓
Shawn Jacobs	SPCWG Member	OG&E	✓	✓
Zachary Sharp	SPCWG Staff Secretary	SPP	✓	✓
Allen Halling		Evergy	✓	✓
Austin White		OG&E	✓	
Bret Burford		AEP	✓	✓
Charles Cates		SPP	✓	✓
Don Hargrove		OG&E		✓
Douglas Bowman		SPP		✓
Frank Peters		Exelon	✓	
Greg Hill		NPPD	✓	
Jeff McDiarmid		SPP	✓	✓
John Allen		City Utilities	✓	✓
John Hare		OG&E	✓	✓
John Varnell		Tenaska	✓	✓
Jonathan Hayes		SPP		✓
Louis Guidry		CLECO	✓	✓
Marc Gomez		SWPA	✓	✓
Matthew Thykkuttathil		Sunflower	✓	✓
Paul Mehlhaff		Sunflower	✓	✓
Randy Van Allen		Midwest Energy	✓	✓
S Satter		OG&E	✓	✓
Shannon mickens		SPP	✓	
Syed Ahmad		FERC		✓
Tiffany Teter		NPPD	✓	
Tracey Stewart		SWPA	✓	✓
Zachary Johnston		OPPD	✓	

Approved UFLS Exemption Metric Proposal Language:

SPP PC would entertain a request for exemption from the SPP UFLS Plan based on the following requirements:

- a. Entity is solely registered as a UFLS Entity.
- b. Entity current year and projected future year peak load is below the registration threshold of 75MW.
- c. Sensitivity analysis is conducted with and without the Entities load during the next 5 year SPP UFLS study and the sensitivity analysis meets PRC-006 requirements for frequency and volts/hertz requirements without the Entities load.
- d. SPP PC supports the SPCWG motion to remove the Entities load from the UFLS plan.
- e. Removal of UFLS Entities load is conditional upon the Entity not being registered as a DP.
- f. If in the future SPP determines that the Entities contribution to load shed is necessary to meet the UFLS plans requirement, the Entity will re-register as a DP or UFLS only DP and become a UFLS Entity.

Action Item	Date Originated	Action Item	Comments
129	07/24/19	Neil Robertson will notify SPCWG members where the new RAS process document will be posted	
133	07/25/19	Michael and Jeff will provide two (2) three-terminal line papers, one less detailed that will refer to the NERC paper, and one more detailed. He will present this to the group at the next meeting.	
134	07/25/19	Charles and Scott (CAS) to discuss the OGE islanding question as per the Austin White email and provide SPP guidance.	4th level of Load Shedding conflicts with the SPP Plan. OG&E looking for guidance from SPP.
146	10/17/19	Neil Robertson to give status update on PRC-012-2 SPP Process Document	
149	04/15/20	John Anderson took an action item to provide updates to the Minimum Transmission Design Standards for Competitive Upgrades, and follow up with Dough Bowman to discuss who owns the document and what the approval process should be.	
150	04/16/20	Ken Zellefrow and Lynn Schroeder took an action item (150) to mark up the spreadsheet (RFI OP – 103, columns E and G for PRC-004) and submit to MRO.	
151	04/16/20	Steve Wadas and Jonathan Hayes took an action item to add the additional UFLS Exemption Metric language to the UFLS plan	