

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

Tuesday August 10, 2021 1:00PM - 5:00PM (CPT)  
Wednesday August 11, 2021 8:00AM - 12:00PM (CPT)  
Net Conference

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

- Chris Angland (OPPD) motioned to approve the *May 11-12, 2021 SPCAG Meeting Minutes*. Ryan Godwin (AEP) seconded the motion. The motion carried without opposition or abstention.
- Ken Zellefrow (CUS) motioned that the SPCAG approve the SPP PC UFLS Plan Revision 4.7 as amended during the 8/11/2021 meeting, adding reference to UFLS-Only Distribution Providers and leaving Section 7 as "Reserved for Future Use". Jeff Beasley (GRDA) seconded the motion. The motion carried without opposition or abstention.
- Zach Sabey took action item #160 for SPP Engineering Modeling Planning Staff to compile a detailed list of checks and value ranges that are used in the Short-Circuit DocuCheck and provide a list of items reviewed during the Preliminary Fault Current Checks. This information is planned to be presented at the November SPCAG meeting.
- Jeff Beasley took Action Item #161 to work to replace the Recommendation section at the end of the Three Terminal Line Whitepaper with a SPCAG Position section. Lynn Schroeder (SECI) and Chris Angland (OPPD) offered to help Jeff review the final language.

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## MINUTES

### AGENDA ITEMS 1 – ADMINISTRATIVE ITEMS

SPCAG Chair John Anderson (Evergy, Inc.) called the meeting to order at 1:06 PM on 8/10/2021 and at 8:32 AM on 8/11/2021.

Zachary Sharp (SPP) took attendance and established a meeting quorum. A record of member attendance will be provided as an attachment to these minutes.

Zachary Sharp (SPP) read the SPP Antitrust Statement.

Chairman John Anderson (Evergy, Inc.) reviewed the agenda.

**Chris Angland (OPPD) motioned to approve the *May 11-12, 2021 SPCAG Meeting Minutes*. Ryan Godwin (AEP) seconded the motion. The motion carried without opposition or abstention.**

Zachary Sharp (SPP) took a moment to introduce William Holden (SPP) as the new SPCAG Staff Secretary. Zachary will act as Staff Secretary for the duration of this meeting, and then work to hand the role off to William.

### AGENDA ITEM 2 – UNDER FREQUENCY LOAD SHED PLAN UPDATE

Nathan Bean (SPP) presented an update to the UFLS Plan. The update includes the replacement of references to SPCWG with SPCAG, inclusion of UFLS-Only Distribution Providers and adding back Section 7.0 – Islanding Schemes. Upon further review it was determined that Section 7.0 was initially removed because it was in conflict with PRC-024. With that understanding the group agreed that Section 7.0 should remain removed, and made edit to the UFLS Plan document to reflect that removal. In accordance with section 17.3, the revised draft document will be emailed to the UFLS entities for a 15 day comment period. The final document will be posted by the PC to spp.org and a posted notification will be sent.

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**Ken Zellefrow (CUS) motioned that the SPCAG approve the SPP PC UFLS Plan Revision 4.7 as amended during the 8/11/2021 meeting, adding reference to UFLS-Only Distribution Providers and leaving Section 7 as "Reserved for Future Use". Jeff Beasley (GRDA) seconded the motion. The motion carried without opposition or abstention.**

### AGENDA ITEM 3 – SPP’S STUDY ESTIMATE DESIGN GUIDE

Tammy Bright (SPP) gave a presentation on SPP’s Study Estimate Design Guide and reviewed results from a recent survey. The guide was created by Design Best Practices and Performance Criteria Task Force and published on 7/19/2011, and focuses on projects 100kV and above. In PCWG’s July 7 meeting, staff took an action item to survey potential users of the SEDG to determine value & usefulness. They received 15 responses with all agreeing that the SEDG is a good resource for new SPP members who are asked to submit cost estimates.

### AGENDA ITEM 4 – SPP SHORT CIRCUIT MODELING DISCUSSION

Zach Sabey (SPP) presented on SPP’s short circuit modeling processes. The group discussed a desire to see more details around the quality checks being performed during the model build process. Lynn Schroeder (SECI) inquired into SPP publishing MDAG short circuit models in PSS/E as well as ASPEN and/or Cape format.

**Zach Sabey took action item #160 for SPP Engineering Modeling Planning Staff to compile a detailed list of checks and value ranges that are used in the Short-Circuit DocuCheck and provide a list of items reviewed during the Preliminary Fault Current Checks. This information is planned to be presented at the November SPCAG meeting.**

### AGENDA ITEM 5 – THREE TERMINAL LINE WHITEPAPER FEEDBACK

Jeff Beasley (GRDA) gave a verbal update on the status of the *Three Terminal Line Whitepaper*. Jeff discussed feedback received from SPP, TWG and ORWG. The TWG discussed creating an RR to the SPP Planning Criteria which would begin formal discussions among applicable working groups and up to MOPC. The group also discussed the need for creating minimum criteria as part of drafting the RR (Fiber at all terminals, required line differentials, etc.). The group took a straw poll and unanimously agreed to post the report on spp.org as a SPCAG position paper and to not currently pursue an RR.

**Jeff Beasley took Action Item #161 to work to replace the Recommendation section at the end of the Three Terminal Line Whitepaper with a SPCAG Position section. Lynn Schroeder (SECI) and Chris Angland (OPPD) offered to help Jeff review the final language.**

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#### **AGENDA ITEM 6 – MINIMUM TRANSMISSION DESIGN STANDARDS FOR COMPETITIVE UPGRADES REDLINE**

David Parrish (AEP) gave an update on work being done on the Minimum Transmission Design Standards (MTDS). The MDSTF has been reconvened at the request of the Transmission Owner Selection Process Task Force and Project Cost Working Group to conduct a review and revise the MTDS. The MDSTF has reviewed line loss calculations conductor ratings, communication, demarcation points and structure loading. RR460 has been created updating the current Minimum Transmission Design Standards. While no SPCAG approval of RR460 is required, David has asked for input from the group. Zachary Sharp sent RR460 out to the SPCAG members during the meeting and asked for responses to David by COB August 17, 2021.

#### **AGENDA ITEM 7 – NERC SPCWG UPDATE AND LESSONS LEARNED**

Lynn Schroeder (SECI) gave an update on the latest NERC SPCS meeting held on 7/29/2021. The Reliability and Security Technical Committee approved the development of an Inter-Entity Short Circuit Model technical reference. SPCS discussed compliance concerns on implementing PRC-019-2 and PRC-024-3. There is a potential SAR being discussed for PRC-025-2 concerning hybrid plants. Lynn also covered the NERC Lessons Learned on Interconnection Oscillation Disturbances posted on 5/4/2021. The Lessons Learned focuses on the 1/11/2019 Interconnection-wide oscillation event.

#### **AGENDA ITEM 8 – SPP NERC UPDATE**

Shannon Mickens (SPP) gave updates from the NERC SPIDERWG Sub-groups. The NERC RSTF approved the S4A Reliability Guideline: Recommended Approaches for UFLS Program Design with Increasing Penetration of DERS for a 45 day comment period ending 8/26/2021. Zachary Sharp (SPP) and John Anderson (Evergy, Inc.) will meet separately to determine how to best handle submission of comments from the SPCAG. The Coordination Sub-group discussed comments on NERC Standards Review and DER White Paper, and voted to revise the document to where it only has technical content. Shannon also informed the group of a new SAR Modification to PRC-005-6 that provided distinction between a DP and UFLS only DP with a comment period ending 8/25/2021.

#### **AGENDA ITEM 9 – MRO PRS MEETING UPDATE**

Bob Soper (WAPA) gave an update on the MRO PRS meeting from 5/25/2021. The MRO Reliability Conference will be held virtually on 8/24/2021. Bob reviewed some misoperations statistics provided by MRO spanning back to 2017. The next PRS meeting is on 8/17/2021.

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### **AGENDA ITEM 10 & 11 – SCHEDULE 2022 SPCAG MEETINGS AND DISCUSS TRAVEL AVAILABILITY**

Zachary Sharp (SPP) discussed SPP's current travel guidelines. The November 2021 SPCAG meeting will be transitioned from in-person to a net conference. For 2022 the SPCAG may meet in-person twice, but currently those must occur at SPP campus in Little Rock, AR. Several SPCAG members discussed their company's current travel restrictions. Zachary showed the results of a poll on whether to schedule future net conferences as single day meetings, or in two half day sessions. The two half day sessions got 7 of the 11 votes. The following dates and times were proposed for the 2022 meeting schedule. The group did not mention any issues with these dates during the meeting. William Holden will send these out to the SPCAG members for a one week review period before finalizing the 2022 schedule.

#### February 2022 Net Conference

- 8<sup>th</sup> from 1-5
- 9<sup>th</sup> from 8-12

#### May 2022 Face-to-Face, Little Rock

- 10<sup>th</sup> from 1-5
- 11<sup>th</sup> from 8-12

#### August 2022 Net Conference

- 9<sup>th</sup> from 1-5
- 10<sup>th</sup> from 8-12

#### November 2022 Face-to-Face, Little Rock

- 8<sup>th</sup> from 1-5
- 9<sup>th</sup> from 8-12

### **AGENDA ITEM 12 – CLOSING ADMINISTRATIVE DUTIES**

Zachary Sharp (SPP) reviewed new, open and closure pending action items. Action Items 149, 155, 156, 157, 158 and 159 were marked as Closure Pending. Action Items 160 and 161 were created.

The group discussed potential topics for the November 9<sup>th</sup> – 10<sup>th</sup>, 2021 SPCAG meeting, including:

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- Protection in your shop:
  - Automation of Wide Area Coordination, SARA (Jeff Beasley, Q4 2022)
  - Evergy Misoperation (John Anderson, Q4 2021)
  - Traveling Wave Relays?
  - OG&E PMUs (Shawn Jacobs, Q4 2021)
  - NPPD Cold Weather Response (Steve Wadas, Q4 2021)

SPCAG Chair John Anderson (Evergy, Inc.) recessed the SPCAG at 4:36 PM on 8/10/2021 and adjourned the SPCAG and at 11:27 AM on 8/11/2021.

Respectfully Submitted,

Zachary Sharp, Acting SPCAG Staff Secretary

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**SUMMARY OF ATTACHMENTS:**

SPCAG 8/10-11/2021 Agenda (pg. 8)

SPCAG Member Attendance (pg. 9)

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August 10, 2021 1:00PM - 5:00PM CDT  
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**AGENDA**

1. Administrative Items:
  - a. Call to Order..... John Anderson
  - b. Attendance ..... Zachary Sharp
  - c. Antitrust Statement..... Zachary Sharp
  - d. Agenda Review ..... John Anderson
  - e. Approve Minutes of May 11-12, 2021 meeting ..... John Anderson
2. Under Frequency Load Shed Plan Update (Approval)..... Nathan Bean (30m)
3. SPP’s Study Estimate Design Guide..... Tammy Bright (30m)
4. SPP Short Circuit Modeling Discussion..... Zach Sabey (60m)
5. Three Terminal Line Whitepaper Feedback..... Jeff Beasley (30m)
6. Minimum Transmission Design Standards for Competitive Upgrades Redline..... David Parrish
7. NERC SPCWG Update and Lessons Learned..... Lynn Schroeder (30m)
8. SPP NERC Update..... Shannon Mickens (30m)
9. MRO PRS Meeting Update..... Bob Soper (30m)
10. Schedule 2022 SPCAG Meetings ..... All (30m)
11. Discuss Travel Availability..... All (15m)
12. Closing Administrative Duties:
  - a. Review of New, Open and Closure Pending Actions..... Zachary Sharp
  - b. Discuss upcoming meeting topics..... John Anderson
    - 11/9-10/2021 (Denver, Xcel)
  - c. Adjourn meeting ..... John Anderson



SPCAG Member Attendance:

Name	Company	Role	8/10/2021	8/11/2021
John Anderson	Evergy, Inc	Chair	✓	✓
Chris Angland	Omaha Public Power District	Vice Chair	✓	✓
Jeff Beasley	Grand River Dam Authority	Member	✓	✓
Ryan Godwin	American Electric Power	Member	✓	✓
Shawn Jacobs	Oklahoma Gas & Electric	Member	✓	✓
David Oswald	Liberty Utilities	Member	✓	✓
Lynn Schroeder	Sunflower Electric Power Corp	Member	✓	✓
Bob Soper	Western Area Power Administration	Member	✓	✓
Steve Wadas	Nebraska Public Power District	Member	✓	✓
David Wheeler	Xcel Energy	Member	✓	✓
Ken Zellefrow	City Utilities of Springfield MO	Member	✓	✓
Zachary Sharp	Southwest Power Pool	Member	✓	✓