

**Southwest Power Pool**  
**SYSTEM PROTECTION AND CONTROL WORKING GROUP**  
**MEETING**

**February 5-6, 2014**  
**AEP 8<sup>th</sup> Floor Conference Room – Dallas, TX**

**February 5 (1pm – 5pm)**

**February 6 (8am – 12pm)**

**• M I N U T E S •**

**Agenda Item 1: Administrative Items**

SPCWG Meeting

Item 1a: Call to Order and Introductions

Chair, Rick Gurley (AEP), called the meeting to order at 8am and welcomed everyone. There were 15 in-person participants and 4 teleconference participants. (Attendance List Attached).

Item 1b: Proxies

There were no proxies for this meeting.

Item 1c: Approve minutes of previous meetings (Action Item)

The minutes from the November, 2013 meeting were reviewed and were unanimously approved.

Item 1d: Approve agenda

Rick Gurley (AEP) presented the agenda for review and asked for any additions or corrections. The agenda was unanimously approved.

**Agenda Item 2: Review of Past Action Items**

Doug Bowman (SPP) reviewed and updated the status of action Items 1 through 20. (See also Agenda Item 10 below.)

Action Item 14: Provide the NERC lessons learned url to the members as part of the minutes.

NERC Lessons Learned:

<http://www.nerc.com/pa/rrm/ea/Pages/Lessons-Learned.aspx>

**Agenda Item3: 2014 UFLS Update**

Harvey Scribner updated the group on the status of the 2014 SPP PC UFLS Study. The contract for the study has not been signed. The study will be according to the new UFLS Plan, which includes the WAPA sensitivity. Harvey requested and received support from the SPCWG members for the study.

#### **Agenda Item 4: SPP Strategic Plan Update**

Rick Gurley presented and discussed Michael Desselle's information on the SPP Strategic Plan. Rick requested the group provide comments on the strategic plan by Mid March. See action item #21

#### **Agenda Item 5: Short Circuit Case Issues**

Doug Bowman discussed the ongoing issues surrounding the short circuit cases. The SPCWG-edited version of the Short Circuit Task Force White Paper was reviewed. It was recommended that validation of the cases through comparisons of known events should be done. A request was made for actual fault data that the member, as well as SPP staff, should use to validate the short circuit models. See action item #22

#### **Agenda Item 6: Generator Relay Maintenance/Testing Standard**

Jonathan Hayes initiated discussions surrounding criteria 7.7.3, which sets requirements every 3 years, but the standard PRC005-2 says every 5 years. One of our members wanted waiver to align with implementation of the new standard. The group then went through the entire criteria and updated recommendations on each SPCWG applicable criteria section. What other standards are related to SPCWG criteria? See action item #25.

#### **Agenda Item 7: Hitchland Special Protection Scheme Removal**

Heidt Melson and Roland Azcarraga of Xcel Energy provided their plan for the SPS removal and requested approval from the SPCWG. The SPCWG unanimously approved the request.

#### **Agenda Item 8: Misoperations, 3<sup>rd</sup> Quarter 2013**

Thomas Teafatiller presented on misoperations for the 3<sup>rd</sup> quarter.

- Communications failures and incorrect settings are the leading cause of misoperations
- SPP had highest percentage of misoperations when compared to other regions

Due to time constraints, it was decided that conference calls should be arranged before the next meeting to complete the categorization of subcauses. See action item 26.

#### **Agenda Item 9: GMD Presentation**

This item was deferred to the next meeting due to time constraints.

## Agenda Item 10: Summary of Action Items

	<b>Action Item</b>	<b>Date Originated</b>	<b>Status</b>	<b>Comments</b>
1.	Frank Bristol will work with Rick Gurley and AEP staff on his proposed option #1 scheme for Dempsey Ridge Wind Farm based on the SPCWG's conclusion that it would not be a Special Protection System.	5/8/2013	Complete	Has been handed to AEP Planning group
2.	Jay Caspary will attend the May 20, 2013 RCWG meeting to gain approval and/or guidance on the SPP UFLS Plan	5/8/2013	Complete	Approval obtained
3.	Send out a request for a conference call after feedback from RCWG meeting on May 20, 2013	5/8/2013	Complete	
4.	Send the Misoperations Report to committee members prior to SPCWG meeting for their review.	5/9/2013	Complete	Thomas T. Presented to SPCWG on 8/7/13
5.	Include the Misoperations Report as a standing Agenda Item	5/9/2013	Complete	
6.	Begin to look into the root causes of why SPP has a higher number of communication failures	5/9/2013	Ongoing	Will include this as subtopics under misops (See action items 12 and 18)
7.	Jason Speer to send the Southwestern Public Service Frequency Excursion event data to Harvey Scribner to work on any modifications if needed or additions of the Request for UFLS Event Data	5/9/2013	Complete	Harvey assembling UFLS data request form for future use. The will be included in the UFLS process document
8.	Follow-up with MDWG Chair and Staff Secretary in regards to the MDWG short circuit cases to determine a solution for the modeling issues between PSS/E cases and differences when converted to Aspen	5/9/2013	Complete	Discussed at 8/7/13 SPCWG meeting
9.	Develop a format or template for entities to use if they were to experience an UFLS event	5/9/2013	Complete	See action item 7
10.	Develop a format or template for entities to use for UFLS relay settings – Annually	5/9/2013	Complete	See action item 7
11.	Revise the SPS spreadsheet to include a category column. Send the NERC SPS document, which includes the proposed SPS definition, so that the SPS owners can categorize at the November SPCWG meeting.	8/7/2013	Complete	

12.	At the November SPCWG meeting, analyze past misoperations and categorize the communications failures using subcauses in the NERC Misoperations Task Force report. Begin with Q2 2013 and work back in time.	8/7/2013	Ongoing	Each representative will work on their own comm. misops before the February 2014 meeting. Include item aa 18 below.
13.	Invite BES Definition Drafting Team member, for the November SPCWG meeting, to present on the work they are doing. LS/DB	8/7/2013	Complete	Presented at November meeting
14.	Provide the NERC lessons learned url to the members as part of the minutes. DB	8/7/2013		
15.	Compliance department to formally send new UFLS plan and date requirements to the members. JS	8/7/2013	Complete	
16.	Determine if coordination with MISO can be worked out to obtain mutual consent concerning delaying the adjusted UFLS boundaries until 2015. HS	8/7/2013	Complete	Those entities formerly within SPP UFLS that are now under the MISO RTO will no longer be under SPP's UFLS Plan
17.	Determine how SPP deals with model corrections between model builds. DB	8/7/2013	Complete	
18.	Members to bring ideas to the November SPCWG meeting for a checklist that will assist in reducing misoperations due to communication problems,	8/7/2013	Complete	Combined with action item 12
19.	Need someone to do a presentation on GMD in a future meeting. DB	9/6/13	Complete	D.B.presented at the 2/5,6 mtg
20.	Set up conference call to work towards a charter for a short circuit task force and deliver at next meeting DB	9/6/13	Complete	Conference call produced an edited white paper for presentation at the 2/5,6 mtg
21.	Send out strategic plan to SPCWG and request comments by mid March.	2/5/2014		DB to send out and get comments back by mid March
22.	Members to collect actual fault data, simulate in his own model, and send both sets of info to D.B. to validate SPP short circuit models by Feb 19, 2014	2/5/2014		
23.	DB to discuss with MDWG on possibility of re-activating Short Circuit task force	2/5/2014		
24.	DB to forward updated criteria spreadsheet to Jonathan Hayes (JH) and SPCWG members. JH to forward to compliance reps and RCWG	2/6/2014		

	for review by each entity to determine if included as part of a compliance plan by any individual entity			
25.	Areas requiring further investigation within the criteria spreadsheet will be reported on by next meeting by Louis Guidry.	2/6/2014		
26.	The group will fill in misoperation subcause categories provided in the spreadsheet that TTeafatiller sent out on 2/5. Set up webcast for end of February to go through submittals	2/6/2014		

**Agenda Item 11: Discussion of Further Meetings**

Remaining Meetings for this year (all Wednesdays and Thursdays):

- August 6-7
- November 5-6

**Agenda Item 12: Closing Administrative Duties**

Rick Gurley (AEP) discussed the scheduled future meetings which will be May 7-8, 2014. The meeting was adjourned.

Respectfully Submitted,

**Douglas Bowman**  
SPCWG Staff Secretary

**Southwest Power Pool, Inc.**  
**SYSTEM PROTECTION AND CONTROL WORKING GROUP**  
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**AEP Offices, Dallas, TX**

• ATTENDANCE LIST •

Name	Company
Jonathan Hayes	Southwest Power Pool
BUD ABERILL	GRDA
NISHI NINAN	GRDA
DEE Edmondson	SPP
Tom Miller	ITC
Louis C. Cowdry	Cleco
Doug Bowman	SPP
Rick Gurley	AEP
HEIDI NELSON	XCEL ENERGY
Shawn Jacobs	OGPE
Gary Condret	Sunflower
Randall Wilmeth	Xcel Energy
Brent Carr	AEC
Thomas Teafstiller	SPPRE
Matthew Thyckenthal	Sunflower Electric
Roland Azcaraga on the phone	Xcel Energy
Ken Zellefrow on the phone	Springfield
Steve Wades on the phone	NPPD
Matt Magill on the phone	Westar