

Southwest Power Pool
SYSTEM PROTECTION AND CONTROL WORKING GROUP
MEETING

July 13, 2016
Hilton Garden Inn Downtown
Sioux Falls, SD

• M I N U T E S •

Agenda Item 1: Administrative Items

Call to Order and Introductions

Chair, Louis Guidry (CLECO), called the meeting to order at 1pm and welcomed everyone. There were 14 in-person participants and 13 teleconference participants. (Attendance Lists Attached).

Proxies

There were no proxies for this meeting.

Approve minutes of previous meetings (Action Item)

The minutes for the April, 2016 meeting were reviewed. A small edit was made to item 8 to clarify date of responsibility for DDR placement. The minutes were then unanimously approved by the group.

Approve agenda

The agenda was reviewed and no changes were made, and unanimously approved.

Agenda Item 2: Review of Past Action Items

Doug Bowman (SPP) reviewed and updated the status of Action through 78.

Agenda Item3: NERC Update

Forrest Brock updated the group. The SPC has not met since our last SPCWG meeting. A conference call is planned for the end of July. The end of June was the end of the term for existing SPC leadership and new leadership has been determined. PER-006 and PRC-027 may be filed with FERC in December 2016.

Agenda Item 4: PRC-006-2 UFLS

Load Definition

Harvey Scribner (SPP) gave a power point presentation and associated plan changes as follows:

- Frequency performance characteristics in section 3.1 and 3.2
- Generator auxiliary load to be included in the UFLS program when it isn't included in the powerflow model,
- Appendix C change about when boundary changes in the island require a new study (the group added an item in the plan "changes to the total load that require a sensitivity study),
- Changes to appendix B to include info, details, and definition tabs in the example data templates
- Clean-up of appendix E. Consistent information between the plan and the reporting requirement is essential.

Overlap of Manual and Automatic Load Shed:

Harvey provided a power point addressing manual load shedding in the planning criteria. A 30% manual load shed with not UFLS loads included could create an unintended UFLS load shed of 42.8% and it could also cycle customer outages more frequently. A question had been asked about a distinction between manual and UFLS load shed. Should UFLS load shed per PRC-006-2 overlap with SPP Criteria manual load shed and if so, how much overlap? There are under frequency load shed events that initiate UFLS and there are other events that cause manual load shed. There is no criteria for them being separate. The EOP-3 was discussed as well and there is no perceived change to the plan or criteria at this time.

Collection of UFLS Generator Data:

Harvey provided a power point on generator data collection in PRC-024-2. Not supposed to trip in the no-trip zone. How and when is this generator protection data to be given to the PC? The standard requires 60 days and the PC requires 30 days in the UFLS plan. A separate request may be required for generators. SPP staff to review removal of GO in section 9.0 and requesting 60 calendar days or leaving all 3 entities and 60 days. Harvey to review it with SPP Compliance group

A remaining question was covered about the data request for PRC-006. Should the data request be combined request with PRC-024? The group thought it should be separate, however they left it up to the PC. Which working group is requesting and using the generator data?

Agenda Item 5: Misoperations

Misoperations Report:

Thomas reviewed the misoperations report with Q1 2016 included.

New NERC Reporting Format (MIDAS)

Louis provided a power point on Misoperation Information Data Analysis (MIDAS) on the NERC website. This is where information is to be reported on misoperations. Which optional fields should be filled in? The group decided that information on optional items below that are marked through below will not be reported. Staff will send an email to the owners telling them which optional information is required.

*Indicates conditionally required (see additional validations below)

Required	Not required
Misoperation ID	Fault Type
Region Where Misoperation Occurred	Restoration Method
NERC Compliance Registry Number	Incorrect Settings et. al. Sub-Cause Code
Jurisdiction	Communication Sub Cause
Misoperation Date	Communication System Type
Misoperation Time	Protection System Schemes
Time Zone	Protection Systems/Components that Misoperated
Facility Name	Relay Technology
Equipment Name	Microprocessor Relay Manufacturer
Equipment Type	TADS Elements
Facility Voltage	GADS Elements
Equipment Removed from Service	Corrective Action Plan
Event Description	CAP Target Completion Date*
Misoperation Category	CAP Actual Completion Date*
Cause(s) of Misoperation	Additional Contact Name
Is this a TADS reportable event?	Additional Contact's Phone Number
Is this a GADS reportable event?	Additional Contact's Email Address
Analysis and Corrective Action Status	Comments
Reported By	
Reported By Phone	
Reported By Email	
Date Reported	

Misoperations Summit Update: Louis commented that the SPCWG and the RCWG will come together along with member SME's with the expressed purpose of trying to reduce or correct misoperations. Jennifer Flandemeyer (RCWG) has reached out to the entities and NERC. Reviewing the whitepaper, best practices, misoperation reduction ideas, etc. will be on the agenda. The Summit will be on October 26 and Louis suggested we not have our Q4 meeting on October 12, 13 but have a half day meeting on the 25th or the 27th.

Misoperations Whitepaper Working Session:

The misoperations data and whitepaper will be done this coming quarter as it will be more efficient.

Agenda Item 6: PRC-002-2 DME Reporting Requirements 1.2

During the action items review, it was determined that the list for DDRs would be provided 90 days after July 1, 2016. Also discussed neighboring entities contacting you when their analysis showed a DFR was required on their system at a location where you owned transmission elements.

Agenda Item 7: PRC-002-2 DME Criteria Removal

Doug Bowman requested input on which sections of Criteria 8 needs to be removed. The group compared the criteria to the new standard and determined that the entire criteria section 8 can be removed. Forrest motioned to remove section 8 (DME) of the criteria. The request was unanimously approved. DB will put together the RR to remove.

Agenda Item 8: EPRI Projects of Interest

Doug Bowman provided information on SPP participation in EPRI Projects P39 and P40. Some of these projects involved relay and protection aspects. He encouraged to group to follow the projects if they are members of EPRI

Agenda Item 9: Basin Special Protection Scheme

Tanner Seibel, (BEPC), received a response from the US Army Corp in regards to the timeframe to separate the DC supply on the two relays (21-26A and 21-26B) at the Oahe Substation for the Rapid City HVDC SPS. The Corp. indicated that they will be able to complete the redundant DC supply by the middle of May (May 15th). The COE has not gotten back with Tanner so we will continue to monitor this item. Louis has received contact information for the COE so he will try to contact them as well.

Agenda Item 10: Other Business

None

Agenda Item 12: Discussion of Future Meetings

The WG discussed the meeting dates for the remainder of 2016 and into 2017. It was decided that the next meeting will be ½ day 1-5 on October 25 adjacent to the Misoperations Summit on October 26. Doug will let everyone know if the 25th meeting space is available

Oct 25, 2016 Little Rock, AR

Jan 18,19 Dallas, TX

Apr 19,20 Oklahoma City, OK

July 12,13 Denver, CO

Oct 18,19 Dallas, TX

Agenda Item 13: Closing Administrative Duties

The action item list was updated and summarized by Doug Bowman. Louis asked everyone to think about future topics for upcoming meetings.

The meeting was adjourned.

Respectfully Submitted,

Douglas Bowman
SPCWG Staff Secretary

ATTENDANCE:



Southwest Power Pool, Inc.
SYSTEM PROTECTION & CONTROL WORKING GROUP
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• ATTENDANCE LIST •

Name	Company
Doug Bowman	SPP
Louis Guidrey	Cleco
Jeff Bergley	GRDA
Bob Chapman	WAPA-UGA
Gary Coudriet	Sunflower
Steve Wedas	NPPD
FORREST BROCK	WFEC
Lori Messengee	WAPA
Bob Soper	WAPA
David Weir	WAPA
Rick Gurley	AEP



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• ATTENDANCE LIST • (Webex, Teleconf)

Name	Company
Shawn Jacobs	OGE
Ken Zellekrow	City Utilities
Hugh Melson	XCEL
Robert Harchak	Cleco
Matt McGill	Westar
John Allen	SPRM
Robert Gray	BPA
Steve McGee	BPA
Harvey Scribner	SPP
Charles Hendrix	SPP
David Oswald	EDE

Working Group Action Items

Action Item	Date Originated	Action Item	Comments	Status (Not Started, In Progress, Closure Pending, On Hold, Closed)
56.	02/12/15	BA and DB to discuss path forward on getting criteria changes into the new SPP process	RR has been submitted and will be on the ORWG and TWG agendas August and July respectively	complete
57.	02/12/15	DB to talk to HS about voltage issues in the UFLS study and include in next study	Harvey to include in next study	complete
58.	05/06/15	LG to provide guidance on reporting misoperations and correct operations at our next meeting	Waiting on NERC to finalize (4/13). At July meeting, NERC's reporting format was reviewed.	complete
59.	05/07/15	JH to determine if Miss. Delta SPS should remain as an SPP SPS	SPS may be under MISO now	Complete
60.	05/07/15	JH and HS to examine section 8 of the UFLS plan for possible needed revisions concerning material boundary changes	Section revised	complete
61.	05/07/15	DB to work on a repository for all SPSs		complete
62.	05/07/15	DB to find waiver form and send to Golden Spread		complete
63.	08/12/15	HS and JH to address stable power swings in the next version of the plan change	WIP	ongoing
64.	08/12/15	Put a list together of material to be submitted to the SPCWG when a new SPS is proposed.		Complete

65.	08/12/15	DB to consolidate misops data for analysis and send output to SPCWG		Complete
66.	08/12/15	JH and DB to request clarification from Erin on whether the RRs can be submitted with a future enforceable date		Complete
67.	08/12/15	DB to work with Steve Sanders to get SPS approval from the TWG and ORWG.		Complete
68.	08/12/15	DB to work to get SPS approval from the TWG and ORWG for Ensign SPS removal.		Complete
69.	11/04/15	SW and DB to work on putting a checklist together for material required by the SPCWG for new and revised SPSs by the next meeting	ORWG and TWG address in Aug and Juy Meetings	ongoing
70.	11/04/15	LG, LS, HM, and MT will work on misops white paper and deliver a draft to the group by Jan 1.	DB and LG to clean up whitepaper with noted changes per January 2016 meeting	ongoing
71.	11/04/15	DB to submit Revision Request removing criteria to SPP repository for approval	RR has been submitted and will be on the ORWG and TWG agendas August and July respectively	ongoing
72.	11/05/15	DB to forward missing Basin SPS info to the group when received. Group to vote via email on its sufficiency. Submit for full approval for 1/12 MOPC.	LG to attempt to contact the COE and Bob Soper will try to get him a contact.	ongoing
73.	11/05/15	DB to have the misop graphs revised and send back to the group within a few weeks	Graphs need to be incorporated into whitepaper	ongoing

74	01/14/16	LG to review RR141 and submit to WG and email vote.	Approved by ORWG, SPCWG is responsible for review and submit changes back to ORWG.	complete
75	04/13/16	HS to contact PLI about UFLS possible boundary changes that may required restudy.	this is an agend item for the July meeting	
76	04/14/16	TT to provide guidance on R1.2 of PRC-002-2		complete
77	04/14/16	DB to initiate RR to remove DME info from criteria since PRC-002 will come into effect July 1.	worked through the standard in the July meeting	
78	04/14/16	DB to get updated misops spreadsheet from TT, sort by entitiy, and send out to members to populate sub-sub causes. Divide leftovers among members.	this is an agend item for the July meeting	