



**Southwest Power Pool, Inc.**

**OPERATING RELIABILITY WORKING GROUP**

**Net Conference**

**Thursday August 3, 2017 8:30 AM – 12:00 PM (CDT)**

**• Action Items and Voting Record •**

1. Action Item: Share technical ideas to satisfy TOP-010
2. Action Item: provide a demo of the PMU displays

**Consent Agenda items: June 28, 2017 ORWG Meeting Minutes.**

Jeff Wells (Grand River Dam Authority) moved to approve the consent agenda and Ron Gunderson (Nebraska Public Power District) seconded the motion. The motion carried without opposition or abstention.

**Replicated Data Server:**

Jeff Wells (Grand River Dam Authority) moved to endorse the Replicated Data Server Project with the Full II option, and Kyle McMenamain (Xcel Energy) seconded the motion. The motion carried without opposition or abstention.



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• M I N U T E S •

**Administrative Items / Attendance / Agenda Review**

**Agenda Item 1 – Call to Order**

Chairman Allen Klassen (Westar Energy, Inc.) opened the meeting at 8:30AM on 8/03/2017.

**Agenda Item 2 – Attendance**

Jason Tanner (Southwest Power Pool) called attendance and a meeting quorum was reached.

**Agenda Item 3 – Agenda Review**

Allen Klassen (Westar Energy, Inc.) reviewed the agenda.

**Consent Agenda**

Allen Klassen (Westar Energy, Inc.) discussed the consent agenda items, which included the June 28, 2017 ORWG Meeting Minutes.

**Jeff Wells (Grand River Dam Authority) moved to approve the consent agenda and Ron Gunderson (Nebraska Public Power District) seconded the motion. The motion carried without opposition or abstention.**

**Liaison Reports**

- a. Carl Stelly (Southwest Power Pool) discussed the MRO and SPP activities, and stated that MRO believes SPP went a long ways with the revision request, but they still believe all facilities have a SOL. Ron Gunderson (Nebraska Public Power District) stated that MRO doesn't believe we are operating incorrectly but, they believe we have a compliance risk with our current language.
- b. Allen Klassen (Westar Energy, Inc.) notified ORWG that the SPP RE would be dissolved by December of 2018.
- c. Neil Robertson (Southwest Power Pool) provided an update for the OCRTF activities. Neil stated that the OCRTF is expecting three draft RRs to be potentially finalized by August 14 and ORWG would be the primary working group.

**Agenda Items 5 and 6 – Floor communications between RC/BA and TOP/Shift Change and coordinated communication**

Terry Oxandale (Southwest Power Pool) explained the SPP process for communications between RC/BA and TOP. Bryn Wilson (Oklahoma Gas and Electric Co.) explained his concern that communications with the RC should be shared with the BA if first communicated to the RC from the TOP. Terry explained that

a single call should be sufficient to communicate to the RC and BA. Ron Gunderson (Nebraska Public Power District) stated this is another reason to implement a communications tool.

**Agenda Item 7 – TOP OOME Process.**

Terry Oxandale (Southwest Power Pool) discussed the process document, and explained the steps used by the SPP operators. Mark Eastwood (City Utilities of Springfield) questioned the need for 3C-IV in the document and Terry explained that when the TOP issues an Operating Instruction related to generation redispatch then the RC would take over the Operating Instruction by utilizing the OOME process. Ron Gunderson (Nebraska Public Power District) stated that this document once completed and agreed upon should be distributed to all TOPs and GOPs. Terry Oxandale (Southwest Power Pool) requested comments to the document, and stated that he will return to ORWG with a finalized version

**Agenda Item 8 – SPP Data Specification Enhancements.**

Bryn Wilson (Oklahoma Gas and Electric Co.) and Neil Robertson (Southwest Power Pool) discussed the edits to the Data Specification document. Neil explained that the final document would be submitted at the end of August, and he would return to ORWG for final approval. Neil discussed redlines to the section “Status of generator voltage regulation capability”, and Ron Gunderson (Nebraska Public Power District) stated that if the RC needs to understand the capabilities of the equipment then the RC would need to understand the status. Ron stated that if a resource does not have an AVR system and manual voltage regulation is need then ICCP would not be the correct means of communication.

**Agenda Item 9 – AI39 M2M Power Swing Oscillations.**

Gerardo Ugalde (Southwest Power Pool) provided ORWG with an update over the power swing issues observed around the Cooper south area. Gerardo explained that the power swings are caused by the NMRTO having faster ramping resources than the MRTO. Gerardo stated we have the option to override the shadow price, or we could utilize the TLR relief obligation instead of the dynamic M2M relief obligation. Gerardo explained that SPP and MISO agree that the software enhancements may not eliminate all the power swings, but SPP and MISO are confident that it will significantly reduce them. Gerardo explained that SPP and MISO would evaluate the software and make any necessary changes to maintain reliability.

**Agenda Item 10 – TOP-010 SPP RTCA Data Quality.**

Tim Miller (Southwest Power Pool) explained that RTCA studies run every six minutes and take around three to four minutes to complete. Tim explained that results are posted every ten minutes for thermal, voltage unsolved contingencies, and timestamps. Tim explained Gary Plummer’s question where he asked if there is a possibility to receive these assessments and quality through ICCP to satisfy TOP-010. Tim explained that SPP is looking into the most efficient way to satisfy TOP-010 concerns and he would share some the technical ideas for satisfying TOP-010.

**Action Item: Share technical ideas to satisfy TOP-010**

#### **Agenda Item 11 – Replicated Data Server.**

Tim Miller (Southwest Power Pool) provided an update for the RD server topic. Tim explained the background, and the core features of the server. Tim stated that the system would support 15 concurrent users who would be able to view RTNET and RTCA results. Tim explained the benefits, features, and stated that we increased the concurrent users from 15 to 40. Tim discussed the cost, which include the license fee, maintenance, hardware, and staff cost. Tim stated that he was seeking an ORWG endorsement of one of the four options presented.

**Jeff Wells (Grand River Dam Authority) moved to endorse the Replicated Data Server Project with the Full II option, and Kyle McMenamain (Xcel Energy) seconded the motion. The motion carried without opposition or abstention.**

#### **Agenda Item 12 – Macomber Map Beta Testing.**

Jeff Parker (Southwest Power Pool) explained the plan overview for implementation of the Macomber Map beta testing. Jeff stated that SPP is finalizing documentation and requirements, and working to create new systems for hosting the Macomber Map. Jeff explained the feedback needs from ORWG participants such as the expectations for submitting bug reports. Jeff explained the service level agreement, which included the up-time expectations, release timeline, and communication of release notes. Jeff provided the estimated timeline and duration for each task, and explained that he expected a completion time in quarter 1 2018.

#### **Agenda Item 13 – ICCP GMD Alert/Watch/Warning clarification.**

Tim Miller (Southwest Power Pool) explained we have a request to the space weather folks to clarify warning, alert, and watch. Tim explained that currently an Alert is issued for a solar event that is happening such as a flare observed from the sun, or a coronal mass ejection. A warning or watch is issued for impending GMD events such as the G2 storm predicted for August 16.

#### **Agenda Item 14 – Voltage Ride Through.**

This item was tabled for a future ORWG meeting.

#### **Agenda Item 15 – NERC Reliability Standard Activities Update.**

Shannon Mickens (Southwest Power Pool) provided ORWG with an update over the ongoing NERC activities. Shannon reviewed the current projects posted for comment and noted the end dates for the comment periods. Shannon discussed the standard drafting-team meeting dates for the various projects, and reviewed the standing committee meeting dates. Shannon also review the upcoming standards subject to enforcement.

#### **Agenda Item 16 – Member Survey for PMU Phase 2 Project.**

Cody Parker (Southwest Power Pool) discussed the member survey for the PMU phase 2 project. Cody stated the survey is intended to gather information from SPP members about the usage of

synchrophasor technology and to gauge interest in creating a new PMU portal. If there is enough interest in this idea, then this information will be used to help justify a new project request within SPP's internal Project Review and Prioritization Committee process. Cody reviewed the survey questions with ORWG and requested ORWG members submit any additional questions they would like to see added to the list. The ORWG requested to see a demo of the PMU displays at a future ORWG meeting.

**Action Item: provide a demo of the PMU displays**

#### **Agenda Items 17 – ORWG Member Topics**

Jason Tanner (Southwest Power Pool) reminded ORWG members to submit topic for discussion.

#### **Agenda Items 18/19 – Action Item Review**

Jason Tanner (Southwest Power Pool) reviewed the actions items with ORWG.

#### **Agenda Items 20 – Q&A/Open Forum**

#### **Agenda Item 21 – Meeting Schedule**

- a. 9/7/2017 WebEx (Thurs) 0830-1200
- b. 10/04-05/2017 Face-to-Face (Detroit, MI) (ITC) - CONFIRMED
- c. 11/2/2017 WebEx (Thurs) 0830-1200
- d. 12/7/2017 WebEx (Thurs) 0830-1200
- e. 1/3 – 1/4/2018 Face-to-Face (Denver, CO) (Xcel) – TENTATIVE
- f. 2/1/2018 WebEx (Thurs) 0830-1200
- g. 3/1/2018 WebEx (Thurs) 0830-1200
- h. 4/4 – 4/5/2018 Face-to-Face (Tulsa, Oklahoma) (GRDA) – CONFIRMED
- i. 5/3/2018 WebEx (Thurs) 0830-1200
- j. 6/7/2018 WebEx (Thurs) 0830-1200
- k. 7/11 – 7/12/2018 Face-to-Face (Denver, CO) (Tri State) – CONFIRMED
- l. 8/2/2018 WebEx (Thurs) 0830-1200
- m. 9/6/2018 WebEx (Thurs) 0830-1200
- n. 10/3 – 10/4/2018 Face-to-Face (Little Rock, AR) (SPP) – CONFIRMED
- o. 11/1/2018 WebEx (Thurs) 0830-1200
- p. 12/6/2018 WebEx (Thurs) 0830-1200

#### **Agenda Item 22 – Adjourn**

Chairman Allen Klassen (Westar Energy, Inc.) adjourned the ORWG at 12:01 PM (CDT) on 8/03/2017

Respectfully Submitted,  
Jason Tanner, Secretary



**Operating Reliability Working Group**  
**Meeting Attendance: 8/3/2017**  
**M=Member, G=Guest, S=SPP Staff, P= Proxy**



Day 1	Name	Status	Company
x	1 Allen Klassen, Chairman	M	Westar Energy
x	2 Ron Gunderson, Vice Chairman	M	Nebraska Public Power District
x	3 Jim Useldinger	M	South Central MCN
x	4 Gary Plummer	M	City of Independence, MO
x	5 Kyle McMenamain	M	Xcel Energy
x	6 Laurie Gregg	M	Lincoln Electric System
x	7 Allan George	M	Sunflower Electric Power Corporation
x	8 Jeff Wells	M	Grand River Dam Authority
x	9 Todd Gosnell	M	Omaha Public Power District
x	10 Bryn Wilson	M	Oklahoma Gas and Electric Co.
a	11 Dennis Sauriol	M	American Electric Power
x	12 David Pham	M	Empire District Electric Company
x	13 Matthew Stoltz	M	Basin Electric Power Cooperative
x	14 Chance Myers	M	Western Farmers Electric Cooperative
x	15 Craig Speidel	M	Western Area Power Administration
x	16 Abu Elteriefi	M	ITC Holdings
x	17 Jay Patel	M	Kansas City Power & Light
x	18 Mark Eastwood	M	City Utilities of Springfield
a	19 Keith Carmen	M	Tri-State G&T
x	20 Tanner New	P	Proxy for Allan Geroge
x	21 Phil Westby	P	Proxy for Matthew Stoltz
x	22 Ben Hammer	P	Proxy for Craig Speidel
x	23 Harold Wyble	P	Proxy for Jay Patel
x	24 Jonathan Marmillo	G	Genscape
x	25 Tom Mayhan	G	Omaha Public Power District
x	26 John Stephens	G	City Utilities of Springfield
x	27 Terry Gates	G	American Electric Power
x	28 Jamie Hajek	G	NorthWestern Energy
x	29 Steve Gaw	G	The Wind Coalition
x	30 Brad Johnston	G	Arkansas Electric Cooperative Corporation
x	31 Mike Anderson	G	American Electric Power
x	32 Ryan Kirk	G	American Electric Power
x	33 Chris Shaffer	G	American Electric Power
x	34 Louis Guidry	G	Cleco
x	35 Don Hargrove	G	Oklahoma Gas and Electric Co.
x	36 Sing Tay	G	Oklahoma Gas and Electric Co.
x	37 Neal Faltys	G	Omaha Public Power District
x	38 Elkana Nyambegera	G	Sunflower Electric Power Corporation
x	39 John Allen	G	City Utilities of Springfield
x	40 Keeth Works	G	Southwestern Power Administration
x	41 Jason Mazigian	G	Basin Electric Power Cooperative
x	42 Jason Tanner	S	Southwest Power Pool
x	43 Neil Robertson	S	Southwest Power Pool
x	44 Gerardo Ugalde	S	Southwest Power Pool
x	45 Cody Parker	S	Southwest Power Pool
x	46 Jeff Parker	S	Southwest Power Pool
x	47 Kim Van Brimer	S	Southwest Power Pool
x	48 Garrett Crowson	S	Southwest Power Pool
x	49 Margaret Q. Adams	S	Southwest Power Pool
x	50 William Holden	S	Southwest Power Pool
x	51 Tim Miller	S	Southwest Power Pool
x	52 Terry Oxandale	S	Southwest Power Pool
x	53 Will Tootle	S	Southwest Power Pool
x	54 Shannon Mickens	S	Southwest Power Pool
x	55 Derek Hawkins	S	Southwest Power Pool