

**Southwest Power Pool, Inc.
OPERATING RELIABILITY WORKING GROUP**

**Net Conference
May 5, 2016 8:30 - 12:00 PM**

• Action Items and Voting Record •

1. SPP to send a public knowledge document covering CAISO Aliso Canyon gas leak, which was linked to 14 days of system black conditions.
2. SPP to send a new draft revision request for the 30 minute standardization of ratings to ORWG.

Consent Agenda

Jeff Wells (Grand River Dam Authority) moved to approve the consent agenda and John Stephens (City Utilities of Springfield) seconded the motion. The motion was approved without opposition or abstention.

April 7th 2016 Meeting Minutes

Jim Useldinger (South Central MCN) moved to approve the April 7th 2016 meeting as modified, and Paul Lampe (City of Independence, MO) seconded the motion. The motion was approved without opposition or abstention.

RR 140 - 30 Minute Standardization of Ratings

Ron Gunderson (Nebraska Public Power District) moved to withdraw RR140 – 30 Minute Standardization of Ratings, and Jeff Wells (Grand River Dam Authority) seconded the motion. The motion was approved without opposition or abstention.

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• M I N U T E S •

Administrative Items / Attendance / Agenda Review

Chairman Allen Klassen (Westar Energy, Inc.) opened the meeting at 8:33AM on 5/05/2016.

Jason Tanner (Southwest Power Pool) called attendance.

Allen Klassen and Casey Cathey (Southwest Power Pool) reviewed the agenda, and noted the items that would require action.

Consent Agenda

Casey Cathey (Southwest Power Pool) discussed the consent agenda items, which included the May 5, 2016 ORWG Meeting Minutes, RR 153 – Offer Database Roll Forward, and RR155 – RCAR Remedies.

John Stephens (City Utilities of Springfield) requested to pull the meeting minutes from the consent agenda for discussion.

Jeff Wells (Grand River Dam Authority) moved to approve the consent agenda and John Stephens (City Utilities of Springfield) seconded the motion. The motion was approved without opposition or abstention.

Liaison Reports

a. Voltage Task Force Update

Mark Eastwood (City Utilities of Springfield) provided an update to the activities occurring at the Voltage Task Force. Mark stated that the VTF held a face to face meeting in Dallas on 4-27-2016 and 4-28-2016. Mark stated Powertech Labs discussed data requirement accuracy and weak point concerns for Online VSAT, and GE discussed modeling techniques along with wind study results from studies they were involved in. Mark stated the VTF also discussed the VIS phase 2 Voltage requirements, modeling resource VAR capability curves, Transformer Tap Changer Settings, and the VTF discussed development of a new revision request to modify the GIA for new resources. Jason Tanner (Southwest Power Pool) discussed the idea of forming the Operational Modeling Task Force.

Agenda Item 6 – RR140 – 30 Minute Standardization of Ratings.

Neil Robertson (Southwest Power Pool) discussed RR140 – 30 Minute Standardization of Ratings. Neil discussed the actions taken at TWG, and stated that TWG believes the RR should belong in criteria. Neil suggested withdrawing the RR and resubmitting it to adjust criteria language. John Stephens (City Utilities of Springfield) asked if the discussion that occurred at TWG was over the timings of normal and emergency ratings. Neil stated that the discussions were mainly around the language not being applicable to Planning Criteria, and that lead them to believe the language belongs in Operating Criteria. Bryn Wilson (Oklahoma Gas and Electric) recommended creating a task force, and Casey Cathey (Southwest Power Pool) recommended that volunteers work with Derek Hawkins (Southwest Power

Pool) instead of creating a task force. The group discussed and concluded that has already occurred, and Casey agreed. Casey commented that TWG didn't raise issue with the language, but were more concerned about operational language being in Planning Criteria. Casey suggested that ORWG withdraw the revision request and submit a new version that focuses on adjusting Operating Criteria.

Ron Gunderson (Nebraska Public Power District) moved to withdraw RR140 – 30 Minute Standardization of Ratings, and Jeff Wells (Grand River Dam Authority) seconded the motion. The motion was approved without opposition or abstention.

Allen Klassen (Westar Energy, Inc.) suggested the following road map to complete this revision request:

1. Determine the appropriate location within the Operating Criteria.
2. Draft a new revision request.
3. Review the revision request at the next face to face meeting.

ACTION ITEM: SPP to send a new draft revision request for the 30 minute standardization of ratings to ORWG.

Agenda Item 7 – M2M Flowgates Causing Large Power Swings and Oscillations.

Gerardo Ugalde (Southwest Power Pool) presented M2M flowgates causing large power swings and oscillations. Gerardo stated that SPP implemented M2M with MISO on March 1st, 2015 and shortly after, both SPP and NPPD started to notice unacceptable power swings around the COOPER area. Gerardo stated that the power swings are caused when the NMRTTO has faster ramping resources than the MRTTO because the relief request is updated more frequently with M2M compared to TLR, and this causes MRTTO to bind and then unbind periodically as the markets struggle to price converge. Gerardo stated the issue existed with TLR but was less frequent due to the less frequent updates to the relief assignment. Gerardo discussed the April 4th event and stated that SPP called M2M on an SPP flowgate on April 4th, 2015 and shortly after SPP noticed power swing on the system. Gerardo discussed an option SPP had available which was to have MISO implement a shadow price limit (or VRL) of \$750 around 1600, and this suppressed the power swings as it forces MISO to always bind even when SPP is not binding. Gerardo stated this action caused price separation at the SEAMs and the shadow price limit was reduced to \$50 around 18:00, and at 20:00, the shadow price limit was completely removed. Gerardo also discussed the August 19th event, alternate procedures, and additional awareness SPP is working towards. The ORWG requested reviewing the Empire, Westar, and SPA oscillation event utilizing PMU data at a future ORWG meeting.

Agenda Item 8 – SPP Revision Request Exploder.

Casey Cathey (Southwest Power Pool) provided notification to the ORWG about the new revision request exploder located on the SPP website.

Agenda Item 9 – Summer Assessment Sensitivity Review.

Casey Cathey (Southwest Power Pool) presented summer assessment sensitivity review. Casey stated that it would be similar to 2015/2016 Winter assessment. Casey stated that it would include 2 models per week with outages, Sunday and Wednesday. Casey also discussed the additional sensitivities that would be included if time permits; single seasonal model, transfer limit analysis, PV screening and

analysis, and the loss of major gas pipeline. Casey stated that we are thinking about an additional task force for operational seasonal assessments.

ACTION ITEM: SPP to send a public knowledge document covering CAISO Aliso Canyon gas leak, which was linked to 14 days of system black conditions.

Agenda Item 10 – Review of Current Secure Documents.

This item was tabled for future ORWG meeting.

Agenda Item 11 – Public Appeals.

This item was tabled for future ORWG meeting.

Agenda Item 12 – Line Re-Ratings.

Will Tootle (Southwest Power Pool) discussed line re-ratings and discussed having the re-rating posted to OASIS. Kyle McMenamain (Xcel Energy) expressed concerns about potential exposure for posting line re-ratings. Casey Cathey (Southwest Power Pool) stated that the data would be a public data request enhancement, and would follow the public data request process. John Stephens (City Utilities of Springfield) stated that he would not be in favor of this type of proposal. Jim Jacoby (American Electric Power) stated that he would draft the revision request and send a copy to Casey and Neil Robertson (Southwest Power Pool).

Agenda Item 13 – SPP Reliability Communication Tool Project.

Neil Robertson (Southwest Power Pool) discussed the SPP Reliability Communications Tool Project and discussed the timeline of events that lead to project completion. Neil also discussed the member involvement needs, and discussed the high level features of the tool. Neil stated that the tool could perform blast communications, two way communication, load shed, OOME, and real-time flowgate information. Neil stated that the tool would reduce reliance on voice communications to implement load shed and OOME instructions.

Agenda Item 14 – TOP Data Specifications Uniform Framework

Ron Gunderson (Nebraska Public Power District) discussed the need for a TOP data specifications document, and asked the ORWG for thoughts and recommendations. The ORWG agreed with the idea and Kyle McMenamain (Xcel Energy), Jeff Wells (Grand River Dam Authority), and Allen Klassen (Westar Energy) all volunteered to help draft a TOP data specifications document and return to the September ORWG meeting.

Agenda Item 17 – Other Items

a. April 7th 2016 Meeting Minutes

John Stephens (City Utilities of Springfield) requested adjusted operating instruction from lower case to upper case for agenda item 10.

Jim Useldinger (South Central MCN) moved to approve the April 7th 2016 meeting as modified, and Paul Lampe (City of Independence, MO) seconded the motion. The motion was approved without opposition or abstention.

Agenda Item 18 – Meeting Schedule

- a. 5/31-6/1/2016 Face-to-Face (Tampa Bay, FL; FRCC offices) - CONFIRMED
- b. 7/7/2016 WebEx (Thurs) 0830-1200
- c. 8/4/2016 WebEx (Thurs) 0830-1200
- d. 8/31-9/1/2016 Face-to-Face (Little Rock, Arkansas) - CONFIRMED
- e. 10/6/2016 WebEx (Thurs) 0830-1200
- f. 11/3/2016 WebEx (Thurs) 0830-1200
- g. 12/1/2016 WebEx (Thurs) 0830-1200

Agenda Item 19 – Summary of Action Items

See Page 1 Action Item list.

Agenda Item 20 – Adjourn

Chairman Allen Klassen (Westar Energy, Inc.) adjourned the ORWG at 12:01 PM (CST).

Respectfully Submitted,

Casey Cathey
Secretary



**Operating Reliability Working Group
Meeting Attendance: 5/5/2016
M=Member, G=Guest, S=SPP Staff, P= Proxy**



		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	Paul Lampe	M	City of Independence, MO
x	5	Kyle McMenamin	M	Xcel Energy
x	6	Steve Haun	M	Lincoln Electric System
x	7	Allan George	M	Sunflower Electric Power Corporation
x	8	Jeff Wells	M	Grand River Dam Authority
x	9	John Stephens	M	City Utilities of Springfield
x	10	Todd Gosnell	M	Omaha Public Power District
x	11	Bryn Wilson	M	Oklahoma Gas and Electric Co.
x	12	Dennis Sauriol	M	American Electric Power
x	13	Darrel Yohnk	M	ITC Holdings
x	14	David Pham	M	Empire District Electric Company
x	15	Matthew Stoltz	M	Basin Electric Power Cooperative
x	16	Chance Myers	M	Western Farmers Electric Cooperative
A	17	Craig Speidel	M	Western Area Power Administration
x	18	Abu Eiteriefi	G	ITC Holdings
x	19	Kenny Munsell	G	Xcel Energy
x	20	Carrie Dixon	G	Xcel Energy
x	21	Gary Plummer	G	City of Independence, MO
x	22	Kevin Ma	G	Oklahoma Gas and Electric Co.
x	23	Mark Eastwood	G	City Utilities of Springfield
x	24	Jason Mazigian	G	Basin Electric Power Cooperative
x	25	Ben Hammer	G	Western Area Power Administration
x	26	Mark Ahlstrom	G	Wind Logics
x	27	Mike Grimes	G	EDP Renewables
x	28	Robert Safuto	G	Customized Energy Solutions
x	29	Jim Krajecki	G	Customized Energy Solutions
x	30	John Knofczynski	G	East River Electric Power Cooperative
x	31	Denney Fales	G	Kansas City Power & Light
x	32	Gayle Nansel	G	Western Area Power Administration
x	33	Jamie Hajek	G	NorthWestern Energy
x	34	Dave Millam	G	Kansas City Power & Light
x	35	John Allen	G	City Utilities of Springfield
x	36	Mark Robinson	G	Southwestern Power Administration
x	37	Robert Hirchak (Cleco)	G	Cleco
x	38	Sing Tay	G	Oklahoma Gas & Electric
x	39	Terry Gates	G	American Electric Power
x	40	JJ Guo	G	American Electric Power
x	41	Jim Jacoby	G	American Electric Power
x	42	Hlao	G	American Electric Power
x	43	Tom Mayhan	G	Omaha Public Power District
x	44	Casey Cathey	S	Southwest Power Pool
x	45	Gerardo Ugalde	S	Southwest Power Pool
x	46	Will Tootle	S	Southwest Power Pool
x	47	Tim Miller	S	Southwest Power Pool
x	48	Jason Tanner	S	Southwest Power Pool
x	49	Neil Robertson	S	Southwest Power Pool
x	50	Cody Parker	S	Southwest Power Pool
x	51	Ken Quimby	S	Southwest Power Pool
x	52	Gary Snow	S	Southwest Power Pool
x	53	Micha Bailey	S	Southwest Power Pool
x	54	Greg Sorenson	S	Southwest Power Pool RE