



Southwest Power Pool, Inc.

OPERATING RELIABILITY WORKING GROUP

Teleconference

August 06, 2015 8:30 - 12:00 p.m. (CST)

• A c t i o n I t e m s •

- 1. ACTION ITEM: Address Ron Gunderson's concerns "when a generator tests and the test value is less than the transmission capacity reservation for that unit, SPP utilizes the lower value in all their future studies. This means new transmission service requests are studied with the lower outputs. If subsequent testing is higher (still within the original capacity request) there may not be transmission capability to support both requests."**
- 2. ACTION ITEM: Regarding RR96, Will Tootle shall reach out to Darrel Yohnk (ITC), Greg McAuley (OKGE), and Ron Gunderson (NPPD) to work through current concerns in preparation for the September ORWG meeting.**

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• M I N U T E S •

Agenda Item 1 – Administrative Items/Review Agenda

Chairman Jim Useldinger (KCPL) opened the meeting at 8:47 am.

Jim Useldinger (KCPL) stated that RR96 is not an approval item, and Casey Cathey responded that all agenda items with “approval item” next to the item are subject to a vote, but not necessarily required to be voted on at this ORWG meeting. Casey stated that we are trying to differentiate between discussion items and approval items to help better organize the agenda due to the large volume of items the ORWG has addressed this year.

Agenda Item 2 – Approve Previous Minutes

Chairman Jim Useldinger (KCPL) asked the ORWG if they were prepared to approve the meeting minutes for June.

Todd Gosnell (OPPD) moved to approve the minutes from June. Allan George (SECI) seconded the motion. The motion passed without opposition or abstention.

Ron Gunderson (NPPD) asked about approving the July minutes. Casey stated the minutes were posted and we could take a vote. The ORWG elected to vote for approval at the September ORWG meeting.

Revision Request Consent Agenda

Micha Bailey (SPP) Discussed RR106 and explained how the RUC make whole payment distribution amount will work for resources that are offline in RTBM, but, not de-committed or dispatched to zero in the day ahead market. Micha explained that real-time outage deviation charge types in the RUC make whole payment distribution section was designed to penalize resources with a day-ahead cleared amount that did not show up in Real-Time, but resources that are following SPP’s dispatch to zero should not receive the deviation charge type. Micha explained that if the changes are made no resettlement would be required, and all resources dispatched by SPP to zero will be exempt from the real-time outage RUC make whole payment deviation charge type, and resources will no longer be penalized for following SPP’s dispatch to zero. The group asked if this item required an ORWG vote, and through discussion it was determined that RR106 was just informational to ORWG, and would not require a vote.

Agenda Item 4 – RR 56 Recommendation Report

Tony Green (SPP) presented RR56 upgrade determination and short-term reliability project process. Tony explained the upgrade determination and requirements for competitive upgrades, and stated that Attachment Y of the Tariff describes the categories that determine if a transmission project may be issued to an incumbent transmission owner or through the transmission owner selection process. Tony stated that in order to comply with FERC Order 1000 and Attachment Y of the Tariff, this revision request was developed to insure that the proper section of the Tariff is used to issue notifications to construct. Tony stated that transmission facilities that meet the requirements to be a competitive upgrade, but are required to be in service within 3 years or less to address an identified reliability violation, may be exempted from the TOSP if approved by the board. Tony demonstrated the upgrade determination and upgrades determination for project with new and rebuilds portions process flow, and Tony explained that if approved this revision request will provide compliance with FERC Order 1000 and the SPP Tariff, as well as providing clear communication to stakeholders participating in the process. Jim Useldinger (KCPL) asked if this revision request requires ORWG approval. Casey explained that in the routing criteria the ORWG is secondary and responsible for all SPP business practice revision request, which would require approval.

Ron Gunderson (NPPD) moved to approve RR56 Upgrade Determination and Short-Term Reliability Project Process. Todd Gosnell (OPPD) seconded the motion. The motion passed without opposition or abstention.

Agenda Item 5 – RR 98 Expanding the use of SPP CROW

Neil Robertson (SPP) presented RR98 Expanding the use of SPP CROW. Neil explained the objectives for this revision request, which are to make modifications to SPP Criteria Appendix 7 and add additional language to SPP Criteria Appendix 12. The language additions and modifications will define how SPP's CROW Outage Scheduler will be used to submit the status information of reactors, capacitors, breakers, switches, special protection systems, and automatic voltage regulators. Neil explained that by adding switching equipment to CROW it will allow TOPs to report status changes to individual pieces of equipment. Neil stated that line, transformer, and unit outages will still be required to be reported in CROW, and by reporting switching equipment outages it is not an intended replacement for reporting line, transformer, and unit outages. Neil demonstrated the definition of a breaker and switch, a breaker is switching equipment designed to automatically break current flow, and a breaker may be remotely operated. A switch is equipment not intended for the purpose of breaking current flow, and a switch may be operated remotely. John Stephens (SPRM) asked about the timing requirements, and Neil stated that it would follow the appendix 12 timing requirements. Neil explained CROW modeling, and explained that modeling isolation switches in addition to breakers would offer no benefit to SPP. Neil explained that only the breakers would be modeled in CROW, but isolation switches should be included to achieve a specific purpose. Ron Gunderson (NDDP) suggested adjusted who is responsible for reactive devices; Casey Cathey (SPP) made the revision request adjustments, and adjusted the effective date to April 1, 2016. The group postponed the vote and requested a posting of the modified version.

Agenda Item 6 – RR 58 EIA-411 Changes for MOD Standards

Derek Hawkins (SPP) explained the changes to the MOD standards, which are being proposed to strengthen SPP Criteria to support EIA-411 reporting and planning activities. Derek explained that NERC

has issued a new standard MOD-025-2, which will become effective July 2016, and will cover verification and data reporting of generator real and reactive power capability and synchronous condenser reactive power capability. Derek explained that the new standard does not cover seasonality, ambient testing conditions, or the need for an operational testing which are critical in obtaining the proper generator accreditation capability for EIA-411 reporting and planning activities. The timing on this revision is to not only meet the MOD-025-2 timeline but to also provide generators sufficient time to budget and plan for testing of their units in 2016. Derek explained that reactive capabilities verification will be removed from the criteria and Appendix 10 will become irrelevant as part of the revision request change. Ron Gunderson (NPPD) expressed concerns that when a generator tests and the test value is less than the transmission capacity reservation for that unit, SPP utilizes the lower value in all their future studies. This means new transmission service requests are studied with the lower outputs. If subsequent testing is higher (still within the original capacity request) there may not be transmission capability to support both requests.

Greg McAuley (OKGE) moved to approve RR 58 EIA-411 Changes for MOD Standards. Darrel Yohnk (ITC) seconded the motion. The motion passed without opposition or abstention.

ACTION ITEM: Address Ron Gunderson’s concerns “when a generator tests and the test value is less than the transmission capacity reservation for that unit, SPP utilizes the lower value in all their future studies. This means new transmission service requests are studied with the lower outputs. If subsequent testing is higher (still within the original capacity request) there may not be transmission capability to support both requests.”

Agenda Item 7 – TOP-004 R3 Discussion

Neil Robertson (SPP) opened discussion for TOP-004 R3, and Darrel Yohnk (ITC) questioned how SPP handles double circuit contingencies. Neil stated that SPP looks at double contingencies on a case by case basis. Darrel asked the group if we need to develop additional language requirements for how to handle double circuit contingencies. Casey stated that we traditionally handle these issues through proxy flowgates or operating guides and did not see a need to develop additional language.

Agenda Item 8 – NERC Reliability Standard Activities Update

The ORWG received the following update through e-mail.

NERC update –

Some additions since the information in the meeting materials were sent. We have not scheduled calls for these drafts yet. BAL-002-2 is out for an additional ballot. Some good changes here compared to the last revision that was posted. However there is still concern in the industry that the result is not better than what we currently have. This one affects SPP members in that the ORWG is responsible for Reserve Sharing Group policy. PRC-027-1/TOP-001-9 is posted for review and comment. These affect TOP’s and the coordination of protection systems. BAL-005-1, BAL-006-3, FAC-001-3 are posted for review and comment. These are largely impactful to the Balancing Authority, but could impact SPP members who provide data to SPP for use in balancing requirements. The “toolbox” Standard (Project 2009-02 Real-time Monitoring and Analysis Capabilities) scope and SAR is posted for comment. Please review to ensure appropriate bounds are placed on the project. Industry discussion is that this project’s

FERC directives from order 693 have largely already been met in other Standards. Project 2015-08 EOP – A draft SAR is posted to make some limited revisions to the EOP standards regarding EOP plans, restoration, and backup site. The Standards Committee will be reviewing the SAR from our recently completed FAC Standard (SOL/IROL) Periodic Review Team. I expect the SAR to be posted for comment and a SDT solicited shortly after the 8/19 meeting. To recap, the SAR suggests retiring FAC-010 and revising FAC-011 and FAC-014 to eliminate some administrative requirements and clarify the establishment responsibilities of SOLs and IROLs.

Agenda Item 9 – CMTF LOLE Scope

Chris Haley (SPP) presented the scope for the loss of load expectation study. Chris stated that SPP will use a probabilistic approach for Regional and sub-regional Generation Reliability assessments, and the assessments will be performed by the SPP on a biennial basis. Chris stated that were moving in the direction of a reserve margin and away for a capacity margin. Chris discussed how the study will be performed and review the load profiles and peak load in the scope. Chris stated that historical load data from 2007 to 2011 would be used for the assessment. Chris also discussed the forced outage modeling and planned outage modeling sections. Chris requested feedback and comments from the ORWG by August 14, 2015. Chris also commented that he is very interested to receive comments with respect to forced outages in the scope from ORWG.

Agenda Item 10 – Criteria to Protocols

The ORWG received the following update through e-mail.

Currently the SPP Criteria has been split into two documents: SPP Operating Protocols and SPP Planning Protocols. The documents have been formatted consistent with the Marketplace Protocols. At this time, the conversion will simply be a format change with the intent of retaining the current binding.

- A Revision Request has been drafted in order to update the Tariff language to be consistent with the conversion. The RR is currently under diligent internal review.
- Below is an expected timeline for the changes to become effective:
 - o The goal is to post the RR as a package with the protocols and move through the stakeholder process in time for the October MOPC and BOD meetings.
 - o Upon approval at the MOPC and BOD, SPP will establish an effective date consistent with the tariff filing period.
 - o The protocols will be posted in the governing documentation on spp.org and notification will be made to all members prior to the effective date.

Agenda Item 11 – Removal of SPS at Crooked Creek

The ORWG received the following update through e-mail.

On August 13, 2015 the System Protection and Control Working Group (SPCWG) will hold its quarterly meeting. An agenda is included to review NEXtera's request to deactivate the Ensign SPS. Should the SPCWG approve its deactivation, the request will be forwarded to the ORWG and the TWG for additional approval. The MOPC will provide final approval at its subsequent meeting.

Agenda Item 12 – Outage Coordination Metrics

The August metrics were provided in the meeting materials. ORWG will hold discussions in September for this topic.

Agenda Item 13 – RR96 Transmission Outage timing requirements notification

Will Tootle (SPP) gave a brief update on RR96. Will mentioned that he was following the e-mail discussion started by Greg McAuley (OKGE). Casey requested that the ORWG member work with Will Tootle (SPP) offline, he commented that 4 hours was slated to discuss this topic, so we could spend more time on the redlines at the face to face meeting in Little Rock. Casey asked the group their thoughts on working with Will offline for a phased in approach; Darrel Yohnk (ITC) and Greg McAuley (OKGE) agreed. Ron Gunderson stated that he is concerned about compliance with respect to this revision request. He does not want the market to drive reliability compliance. Ron stated that he would like to have someone from the SPP compliance department to be present at the September Face to Face meeting in Little Rock. John Stephens (SPRM) asked about opportunity outages submitted within the 60 day window and if they would be disapproved. Will stated that only if it provides a reliability risk or concern.

ACTION ITEM: Regarding RR96, Will Tootle shall reach out to Darrel Yohnk (ITC), Greg McAuley (OKGE), and Ron Gunderson (NPPD) to work through current concerns in preparation for the September ORWG meeting.

Agenda Item 22 – ORWG Action Item Review

Jason Tanner (SPP) reviewed the previous action items, and closed item 46.

Agenda Item 23 – Other Items

No Items were added.

Agenda Item 24 – Meeting Schedule

- a. 10/8/2015 WebEx (Thurs) 0830-1200
- b. 11/5/2015 WebEx (Thurs) 0830-1200
- c. 12/3/2015 WebEx (Thurs) 0830-1200
- d. 1/6-7/2016 Face-to-Face (Denver, CO; Xcel offices)
- e. 2/4/2016 WebEx (Thurs) 0830-1200
- f. 3/2-3/2016 Face-to-Face (Little Rock, Arkansas)
- g. 4/7/2016 WebEx (Thurs) 0830-1200
- h. 5/5/2016 WebEx (Thurs) 0830-1200
- i. 6/1-2/2016 Face-to-Face (Tampa Bay, FL; FRCC offices)
- j. 7/7/2016 WebEx (Thurs) 0830-1200
- k. 8/4/2016 WebEx (Thurs) 0830-1200
- l. 8/31-9/1/2016 Face-to-Face (Little Rock, Arkansas)
- m. 10/6/2016 WebEx (Thurs) 0830-1200
- n. 11/3/2016 WebEx (Thurs) 0830-1200
- o. 12/1/2016 WebEx (Thurs) 0830-1200

Agenda Item 25 – Summary of Action Items

See Page 1 Action Item list.

Agenda Item 26 – Adjourn

Chairman Jim Useldinger (KCPL) commented that the charter changes were approved at MOPC. Jim adjourned the ORWG at 12:05 PM.

Respectfully Submitted,

Casey Cathey
Secretary



Operating Reliability Working Group
 Meeting Attendance: 9/02/2015 and 9/3/2015
 M=Member, G=Guest, S=SPP Staff, P= Proxy

Day 1	Day 2		Name	Status	Company
P	P	1	Jim Useldinger, Chariman	M	Kansas City Power & Light
X	X	2	Allen Klassen, Vice-Chairman	M	Westar Energy
X	X	3	Paul Lampe	M	City of Independence, MO
X	X	4	Kyle McMenamin	M	Xcel Energy
X	X	5	Ron Gunderson	M	Nebraska Public Power District
X	X	6	Steve Haun	M	Lincoln Electric System
X	X	7	Allan George	M	Sunflower Electric Power Corporation
X	X	8	Jeff Wells	M	Grand River Dam Authority
X	X	9	John Stephens	M	City Utilities of Springfield
X	X	10	Todd Gosnell	M	Omaha Public Power District
X	X	11	Gregory McAuley	M	Oklahoma Gas and Electric Co.
X	X	12	Dennis Sauriol	M	American Electric Power
X	X	13	Darrel Yohnk	M	ITC Holdings
X	X	14	David Pham	M	Empire District Electric Company
X	X	15	Jay Patel	P	Proxy for Jim Useldinger
X	X	16	Baryaley Sharwani	G	Western Area Power Administration
X	X	17	C. Colson	G	Western Area Power Administration - Upper Great Plains Region
X	X	18	Carrie Dixon	G	Xcel Energy
X	X	19	Carroll Reddick	G	Western Farmers Electric Cooperative
X	X	20	Chris Giles	G	Tri County Electric
X	X	21	Chris Matos	G	Golden Spread Electric Cooperative, Inc.
X	X	22	Craig Speidel	G	Western Area Power Administration
	X	23	Daniel Moore	G	Western Farmers Electric Cooperative
X	X	24	Darryl Boggess	G	Western Farmers Electric Cooperative
X	X	25	Dave Millam	G	Kansas City Power & Light
X	X	26	Feng Ma	G	OGE Transmission, LLC
X	X	27	Gary Plummer	G	City of Independence, MO
X	X	28	Gayle Nansel	G	Western Area Power Administration
X	X	29	Jeremy Severson	G	Basin Electric Power Cooperative
X	X	30	Jim Jacoby	G	American Electric Power
X	X	31	Jim Krajecki (CES)	G	Customized Energy Solutions, LTD
X	X	32	John Allen (SPRM)	G	City Utilities of Springfield
X	X	33	John Knofczynski	G	East River Electric Power Cooperative
X	X	34	Lori Frisk-Thompson	G	Oak Bridge Business Solutions
X	X	35	Louis Guidry	G	Cleco Power LLC
X	X	36	Mark Eastwood	G	City Utilities of Springfield
X	X	37	Mark Robinson	G	Southwestern Power Administration
X	X	38	matthew stoltz BEPC	G	Basin Electric Power Cooperative
X	X	39	Michelle Corley	G	Cleco
X	X	40	Mike Wech	G	Southwestern Power Administration
X	X	41	Neal Faltys	G	Omaha Public Power District
X		42	Paul Johnson	G	American Electric Power
X	X	43	Robert Hirschak (Cleco)	G	Cleco
X	X	44	Sarah Cost	G	The Wind Coalition
X	X	45	Seth Cochran	G	DC Energy Midwest, LLC
X	X	46	Sing Tay	G	Oklahoma Gas & Electric
X	X	47	Steve Gaw	G	The Wind Coalition
X	X	48	Terry Gates	G	American Electric Power
X	X	49	terry volkmann	G	City of Grand Island
X	X	50	Tom Mayhan	G	Omaha Public Power District

X	X	51	William Wilson	G	Oklahoma Gas and Electric Company
	X	52	Bruce Rew	S	Southwest Power Pool
X	X	53	Carl Stelly	S	Southwest Power Pool
X	X	54	Casey Cathey	S	Southwest Power Pool
X	X	55	Doug Clark	S	Southwest Power Pool
X	X	56	Erin Cathey	S	Southwest Power Pool
X	X	57	Gary Snow	S	Southwest Power Pool
X	X	58	Jason Tanner	S	Southwest Power Pool
	X	59	Joe Byers	S	Southwest Power Pool
X	X	60	John Gunter	S	Southwest Power Pool
	X	61	Jon Langford	S	Southwest Power Pool
X		62	Kevin Sanson	S	Southwest Power Pool
X		63	Lonnie Lindekugel	S	Southwest Power Pool
X		64	Ron Losh	S	Southwest Power Pool
X	X	65	Sam Ellis	S	Southwest Power Pool
	X	66	Scott Brown	S	Southwest Power Pool
X	X	67	Sherri Maxey	S	Southwest Power Pool
	X	68	Terry Oxandale	S	Southwest Power Pool
	X	69	Tim Miller	S	Southwest Power Pool
X		70	Thomas Teafatiller	S	Southwest Power Pool RE