



**Southwest Power Pool, Inc.**  
**OPERATING RELIABILITY WORKING GROUP**  
**Net Conference**  
**Thursday September 6<sup>th</sup> 2018 8:00 AM – 5:00 PM (CDT)**

**• Action Items and Voting Record •**

**ACTION ITEM: Solicit nominations for the SRTF from ORWG and BAOC.**

**ACTION ITEM: Determine if a CROW upgrade manual is available for distribution.**

**Consent Agenda: August 1-2, 2018 ORWG Meeting Minutes, RR319 MIS over Miles City DC Tie, and RR318 CR Calculations**

**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**

**RR316 MCR Plant and Group Min Down Time Parameter Addition**

**Ron Gunderson (Nebraska Public Power District) moved to approve RR316 MCR Plant and Group Min Down Time Parameter Addition as presented, and Kyle McMenam (Xcel Energy) seconded the motion. The motion carried without opposition or abstention.**

**RR288 DVER Dispatch Instruction Rules Clean-up**

**Kyle McMenam (Xcel Energy) moved to approve RR288 DVER Dispatch Instruction Rules Clean-up as presented, and Allan George (Sunflower Electric Power Corporation) seconded the motion. The motion carried without opposition or abstention.**

**2017-2018 Annual Violation Relaxation Limits Analysis**

**Kyle McMenam (Xcel Energy) moved to approve the recommendations in the annual VRL analysis, and Craig Speidel (Western Area Power Administration) seconded the motion. The motion carried without opposition or abstention.**

**System Restoration Task Force Charter**

**Ron Gunderson (Nebraska Public Power District) moved to approve the SRTF Charter as amended, and Bryn Wilson (Oklahoma Gas and Electric Co.) seconded the motion. The motion carried without opposition or abstention.**

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**• M I N U T E S •**

**Agenda Item 1 – Call to Order**

Chairman Allen Klassen (Westar Energy, Inc.) opened the meeting at 8:32 AM on 8/06/2018.

**Agenda Item 2 – Attendance**

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

**Agenda Item 3 – Antitrust Statement**

Jason Tanner (Southwest Power Pool) read the SPP Antitrust Statement.

**Agenda Item 4 – Agenda Review**

Allen Klassen (Westar Energy, Inc.) reviewed the agenda and noted the items that would require action.

**Agenda Item 5 – Consent Agenda**

Allen Klassen (Westar Energy, Inc.) discussed the consent agenda, which included the August 1-2, 2018 ORWG Meeting Minutes, RR319 MIS over Miles City DC Tie, and RR318 CR Calculations. David Pham (Empire District Electric Company) asked how the CR values would be communicated, and Garrett Crowson (Southwest Power Pool) stated that the communications would stay the same, however we would provide 24 hours' worth of values.

**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.**

**Agenda Item 6 – RR316 MCR Plant and Group Min Down Time Parameter Addition**

Raleigh Mohr (Southwest Power Pool) discussed RR316 MCR Plant and Group Min down Time Parameter Addition. Raleigh stated that this revision request proposes to add two additional commitment parameters for MCRs to resolve the issue described above: 'Group Minimum Down Time' and 'Plant Minimum Down Time'. Raleigh stated that additional language was also added to the resource commitment parameter relationships section of the Protocols to improve the runtime and down time parameter logic for MCRs. Raleigh stated that the Sync-to-Min Time and Min-To-Off Time will no longer be added to the submitted Minimum Down Time or Group Minimum Down Time when the MCR is transitioning between operational configurations. The addition of Sync-To-Min Time and Min-To-Off Time should only apply when the resource is synchronizing or de-synchronizing. Raleigh explained that the addition of 'Group Minimum Down Time' and 'Plant Minimum Down Time' parameters to the current MCR design will prevent combined cycle resources from being committed and de-committed in a manner that potentially violates physical equipment limitations. The addition of these parameters will also potentially facilitate extending the MCR design option to non-combined cycle resource types in the future if the MWG elects to pursue that optionality in the future.

**Ron Gunderson (Nebraska Public Power District) moved to approve RR316 MCR Plant and Group Min Down Time Parameter Addition as presented, and Kyle McMenamain (Xcel Energy) seconded the motion. The motion carried without opposition or abstention.**

#### **Agenda Item 7 – RR288 DVER Dispatch Instruction Rules Clean-up**

Daniel Harless (Southwest Power Pool) explained RR288 DVER Dispatch Instruction Rules Clean-up. Daniel explained that RR272 requires NDVERs to convert to DVER registration after a 2 year period following SPP BOD approval. Daniel stated the purpose of this RR is to remove barriers to DVERs utilizing control statuses, explained in Section 4.4.2.2.3 of the Market Protocols and to clean-up sections stating control status is ignored or not allowed for DVERs. Daniel reviewed the language that was deleted and stated that DVERs will have the ability to utilize control statuses as appropriate and dispatch instructions will be calculated accordingly.

**Kyle McMnamin (Xcel Energy) moved to approve RR288 DVER Dispatch Instruction Rules Clean-up as presented, and Allan George (Sunflower Electric Power Corporation) seconded the motion. The motion carried without opposition or abstention.**

#### **Agenda Item 8 – 2017-2018 Annual Violation Relaxation Limits Analysis**

Ricky Finkbeiner (Southwest Power Pool) discussed the 2018 Annual VRL Analysis and provided the historical VRL trends. Ricky stated that we are experiencing fewer binding instances in RTBM, slightly more binding instances in DAMKT. Rickey stated that transmission upgrades in 2017 and 2018 have provided some substantial congestion relief, and significant reduction in RTBM breach events. Ricky explained the historical spin shortages, and the analysis showed a steady increase in shortages of Spinning Reserve in the past few years. Ricky stated that the majority of these shortage events are occurring in off-peak months, not during times of absolute capacity availability problems, but rather times of unplanned obligation changes and forecast errors. Ron Gunderson (Nebraska Public Power District) expressed concern about the number of Operating Constraint breaches and asked how many intervals had breaches and the risk if the system was outside emergency limits on a first contingency basis for that many periods. Ricky stated that the SPP operators will set the effective limits of a flowgate lower than the actual limit to manage the flowgates within limits. As a result, the Operating Constraint breaches do not reflect the amount of time the system was operating outside emergency limits on a first contingency basis.

**Kyle McMnamin (Xcel Energy) moved to approve the recommendations in the annual VRL analysis, and Craig Speidel (Western Area Power Administration) seconded the motion. The motion carried without opposition or abstention.**

#### **Agenda Item 9 – SPP Map Request Process**

Justin Fultz (Southwest Power Pool) discussed the SPP map request process and how the individual NDA creates possible compliance risk for stakeholder staff. Justin explained the additional administrative time for stakeholder staff to complete NDA process, and the consistency in how SPP handles maps provided to the public. Justin stated that legal review of most recent FERC guidelines indicates publically available maps don't require NDA. ORWG recommended that this topic go before RCWG and SWG before returning to ORWG. The ORWG expressed concerns about removing the CEII because a number of member maps are currently marked CEII.

#### **Agenda Item 10 – System Restoration Task Force Charter**

Neil Robertson (Southwest Power Pool) discussed the System Restoration Task Force Charter, and Ron Gunderson (Nebraska Public Power District) provided comments to the scope purpose and the scope of activities. The ORWG reviewed the comments and made some document modifications. The ORWG recommended that that staff solicit nominations from both ORWG and the BAOC.

**ACTION ITEM: Solicit nominations for the SRTF from ORWG and BAOC.**

**Ron Gunderson (Nebraska Public Power District) moved to approve the SRTF Charter as amended, and Bryn Wilson (Oklahoma Gas and Electric Co.) seconded the motion. The motion carried without opposition or abstention.**

**Agenda Item 11 – RR323 Order 841 Compliance**

Erin Cathey (Southwest Power Pool) explained that FERC issued Order 841 to amend regulations such that barriers to the participation of electric storage resources (ESRs) in the capacity, energy, and ancillary service markets are removed. Erin explained that FERC ordered RTO/ISOs to revise tariffs to establish a participation model consisting of market rules that, recognizing the physical and operational characteristics of ESRs, facilitates their participation in the RTO/ISO markets. Erin explained that SPP began working to develop market design rules that would better incorporate ESRs in November 17, 2016 when FERC issued NOPR AD16-20-000 (Electric Storage Participation in RTO/ISOs). SPP has worked with stakeholders and ESR developers as time and priorities permitted since that time to better understand the technical capabilities of ESRs and how SPP's market may best accommodate them according to their physical and operational characteristics. Erin stated that the issuance of Order 841 has raised the priority of SPP's focus on developing market design for ESRs. Daniel Harless (Southwest Power Pool) discussed the 206 Compliance Filing, and the definition of the new registration type market storage resource (MSR). Daniel explained that an Electric Storage Resource (ESR) is a Resource capable of receiving electric energy from the grid and storing it for later injection of electric energy back to the grid. A Resource that is either physically incapable of injecting electric energy back onto the grid due to its design or configuration or contractually barred from injecting electric energy back on the grid is excluded from this definition. Erin stated that she would bring this revision request back to ORWG after MWG acts on the request.

**Agenda Item 12 – Reliability Communication Tool Update**

Scott Aclin (Southwest Power Pool) discussed reliability communication tool and provided a preview with screenshots. Scott discussed the stakeholder involvement and provided the upcoming milestones for the RCT. Keith Carmen (Tri-State G&T) recommended extending the auto log off until 14 hours. Ron Gunderson (Nebraska Public Power District) stated that we need to evaluate whether or not if compromised, this tool would adversely impact the reliable operation of the BES within 15 minutes of the activation or exercise of the compromise, so both SPP and the members understand how it has to be treated from a CIP perspective. Ron also asked if the tool is located on SPP servers and members are just accessing the system, would this be Remote Interactive Access (RIA)? If the access is RIA, this impacts how members would have to access the system as well. SPP staff will be evaluating these questions and report back to the ORWG and CWG on the results of their evaluation.

**Agenda Item 13 – January 17th event update**

Casey Cathey (Southwest Power Pool) discussed the January 17, 2018 event and stated that SPP and the joint parties are continuing discussions. Casey explained how MISO will have to begin using offsets, and how the SCADA values for power transfers from MISO to MISO south should be used instead of using the market dispatch values for reliability purposes. Casey stated that MISO recognized that the flows from MISO to MISO South above 1,000 MW were non-firm flows, and MISO is willing to shed load on their system. There are still discussions on whether the load shed should be pre-contingent or post-contingent. Casey discussed IDC and how the regional transfers should be addressed. Casey stated we continue to make progress, for example MISO is providing their version of the multi-day reliability unit commitment results. Casey stated that the joint parties are hoping to wrap up the discussions by this October.

**Agenda Item 14 – Generation Retirement Process Update**

Kirk Hall (Southwest Power Pool) discussed the generator retirement process at a high level. Kirk stated that this process would provide an alternative method to evaluate generator retirements in the planning process. Kirk

stated that SPP does not have a standardized process to specifically evaluate generator retirements and the current planning process does not provide the option for a quick response. Kirk stated that the current process for Planning is that SPP models retirements as requested in the ITP processes as submitted in MDWG/ITP model build and RMS. Kirk stated that resources are placed out-of-service and 'zeroed out' in the model, meaning PMin/Max and QMin/Max are changed to zero in the Base Reliability models. Kirk stated that reliability needs resulting from retirements are treated no different than other violations. Kirk explained the two Schedule Options; the 6-Month Open Window, and the 3-month open window proposals.

#### **Agenda Item 15 – Future CROW Upgrades**

Will Tootle (Southwest Power Pool) provided an upgrade schedule for the CROW system. Will stated that the CROW system will be upgraded to version 5.23. Will asked the ORWG to coordinate with their CWG representatives because we will be looking for a liaison from each entity. Will stated that SPP expects the new system to go into production by February 2019. Chris Shaffer (American Electric Power) asked if we should have two liaisons for generation and transmission, and Will stated that we would prefer just a single liaison from each entity.

**Action Item: Determine if a CROW upgrade manual is available for distribution.**

#### **Agenda Item 16 – GMD Testing Results**

Terry Oxandale (Southwest Power Pool) provided an update to the GMD testing results. Terry stated that the last test the GMD test was successful, and the GMD notifications are now effective.

#### **Agenda Item 17 – SPP RC and BA NERC Compliance Submissions Guide Update**

Jon Langford (Southwest Power Pool) discussed the changes to the SPP RC and BA NERC Compliance Submissions Guide. Jon reviewed each of the redlines with ORWG, and explained that the document was developed to provide Transmission Operators (TOP) and Balancing Authorities (BA) in the Southwest Power Pool Reliability Coordinator Area guidelines to follow when submitting NERC Reliability Standards required documents and information to the SPP Reliability Coordinator (SPP RC) and Balancing Authority (SPP BA). Jon stated that this document is intended to provide guidelines on submitting information required by certain NERC Reliability Standards to the SPP RC and BA.

#### **Agenda Item 18 – SPP in the West Update**

Casey Cathey (Southwest Power Pool) stated that activities are continuing in the West and that WAPA announced that they would be selecting SPP as their Reliability Coordinator. Casey stated that we would know more after Friday, which is the deadline for entities in the west to select their Reliability Coordinator. Casey stated that SPP staff would be meeting with the entities in the west next week.

#### **Other Items:**

#### **Agenda Item 19 – ORWG Member Topic List**

The ORWG member topic list was provided in the meeting material packet.

#### **Action Item Review:**

#### **Agenda Item 20 – Review of Open and Closure Pending Actions**

The action item list was provided in the meeting material packet.

**Agenda Item 21 – New Action Items**

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

**Agenda Item 22 – General Q&A/Open Forum**

**Agenda Item 23 – Meeting Schedule**

- a. 10/3 – 10/4/2018 Face-to-Face (Little Rock, AR) (SPP) – CONFIRMED
- b. 11/1/2018 WebEx (Thurs) 0830-1200
- c. 12/6/2018 WebEx (Thurs) 0830-1200
- d. 1/9 - 1/10/2019 Face-to-Face (Denver, CO)(XCEL) – TENTATIVE
- e. 2/7/2019 WebEx (Thurs) 0830-1200
- f. 3/6 - 3/7/2019 Face-to-Face (Omaha, NE) – CONFIRMED
- g. 4/4/2019 WebEx (Thurs) 0830-1200
- h. 5/2/2019 WebEx (Thurs) 0830-1200
- i. 5/29 - 5/30/2019 Face-to-Face (Juno Beach, FL)(NextEra) – CONFIRMED
- j. 6/27/2019 WebEx (Wed) 0830-1200
- k. 8/1/2019 WebEx (Thurs) 0830-1200
- l. 9/5/2019 WebEx (Thurs) 0830-1200
- m. 10/2 - 10/3/2019 Face-to-Face (Dallas, TX)(AEP Office) – CONFIRMED
- n. 11/7/2019 WebEx (Thurs) 0830-1200
- o. 12/5/2019 WebEx (Thurs) 0830-1200

**Agenda Item 24 – Adjournment**

Chairman Allen Klassen (Westar Energy, Inc.) adjourned the ORWG at 2:42 PM (MDT) on 9/6/2018.

Respectfully Submitted,  
Jason Tanner, Secretary

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**Operating Reliability Working Group**  
**Meeting Attendance: 9/6/2018**  
**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
a	3	Jim Useldinger	M	South Central MCN
x	4	Gary Plummer	M	City of Independence, MO
x	5	Kyle McMenamin	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	Doug Peterchuck	M	Omaha Public Power District
x	10	Bryn Wilson	M	Oklahoma Gas and Electric Co.
x	11	Chris Shaffer	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	Mark Eastwood	M	City Utilities of Springfield
x	18	Keith Carman	M	Tri-State G&T
x	19	Tyler Springer	G	American Electric Power
x	20	Phil Westby	G	Basin Electric Power Cooperative
x	21	Sing Tay	G	Oklahoma Gas and Electric Co.
x	22	Ryan Kirk	G	American Electric Power
x	23	Jason Mazigian	G	Basin Electric Power Cooperative
x	24	John Allen	G	City Utilities of Springfield
x	25	Keeth Works	G	Southwestern Power Administration
x	26	Ben Hammer	G	Western Area Power Administration
x	27	Gayle Nansel	G	Western Area Power Administration
x	28	Ron Thompson	G	Nebraska Public Power District
x	29	Neal Faltys	G	Omaha Public Power District
x	30	Steve Gaw	G	The Wind Coalition
x	31	John Fernandes	G	Customized Energy Solutions
x	32	Jim Krajecki	G	Customized Energy Solutions
x	33	Mike Shultz	G	Colorado Springs Utilities
	34	Paul Morland	G	Colorado Springs Utilities
x	35	Brian Potter	G	Liberty Utilities
x	36	Phil Schaeffer	G	Western Farmers Electric Cooperative
x	37	Carrie Dixon	G	Xcel Energy
x	38	Jason Tanner	S	Southwest Power Pool
x	39	Casey Cathey	S	Southwest Power Pool
	40	Patti Kelly	S	Southwest Power Pool
x	41	Brad Johnston	S	Southwest Power Pool
x	42	Daniel Harless	S	Southwest Power Pool
x	43	Erin Cathey	S	Southwest Power Pool
x	44	Garrett Crowson	S	Southwest Power Pool
x	45	Gary Cate	S	Southwest Power Pool
x	46	Jeff Rooker	S	Southwest Power Pool
x	47	Jerry Stone	S	Southwest Power Pool
	48	Jon Langford	S	Southwest Power Pool
x	49	Jim Williams	S	Southwest Power Pool
x	50	Kathryn Dial	S	Southwest Power Pool
x	51	Ken Quimby	S	Southwest Power Pool
x	52	Kevin Bates	S	Southwest Power Pool
x	53	Kim Gorter	S	Southwest Power Pool
x	54	Kirk Hall	S	Southwest Power Pool
x	55	Kristen Darden	S	Southwest Power Pool
x	56	Margaret Q. Adams	S	Southwest Power Pool

x	57	Cody Parker	S	Southwest Power Pool
x	58	Doug Clark	S	Southwest Power Pool
	59	Derek Hawkins	S	Southwest Power Pool
x	60	Yasser Bahbaz	S	Southwest Power Pool
x	61	Melissa Rinehart	S	Southwest Power Pool
x	62	Neil Robertson	S	Southwest Power Pool
x	63	Bea Nelson	S	Southwest Power Pool
x	64	Ricky Finkbeiner	S	Southwest Power Pool
x	65	Scott Aclin	S	Southwest Power Pool
x	66	Terry Oxandale	S	Southwest Power Pool
x	67	Tim Miller	S	Southwest Power Pool
x	68	Will Tootle	S	Southwest Power Pool