



Southwest Power Pool, Inc.
OPERATING RELIABILITY WORKING GROUP
Net Conference

Wednesday September 30, 2020 8:30 AM – 12:00 PM (CDT)

Thursday October 1, 2020 8:30 AM – 12:00 PM (CDT)

• Action Items and Voting Record •

Agenda Item 5 – Consent Agenda September 3, 2020 ORWG Meeting Minutes, September 17, 2020 ORWG Meeting Minutes, HITT S3 ESR C1, C2, C3, E4

Jeff Wells (Grand River Dam Authority) moved to approve the Consent Agenda, and Doug Peterchuck (Omaha Public Power District) seconded the motion. The motion carried without opposition and two abstentions.

Agenda Item 7 – HITT M4 White papers and Recommendations

Jeff Wells (Grand River Dam Authority) moved that the ORWG acknowledge the SPP Staff whitepapers, which includes the ORWG recommendations to the MOPC for HITT M4 regarding Topology Optimization and Economic Outage Coordination. Chris Shaffer (American Electric Power) seconded the motion, and the motion carried without opposition or abstention.

Agenda Item 8 – HITT S3 recommendation E2

Ron Gunderson (Nebraska Public Power District) moved to approve HITT S3 ESR E2, and Chris Shaffer (American Electric Power) seconded the motion, and the motion carried without opposition or abstention.

Agenda Item 10 – ORWG Scope Review

Ron Gunderson (Nebraska Public Power District) moved to approve the ORWG Scope as modified, and Abu Elteriefi (ITC Holdings) seconded the motion. The motion carried without opposition or abstention.

Agenda Item 11 – RR424 RC Area SOL Methodology Clean Up in Planning Criteria

Jeff Wells (Grand River Dam Authority) moved to approve RR424 as presented, and Bryn Wilson (Oklahoma Gas and Electric) seconded the motion. The motion carried without opposition or abstention.

Agenda Item 12 – SPP BA EOP V7.5

Ron Gunderson (Nebraska Public Power District) moved to approve the SPP BA EOP V7.5 as presented, and Kyle McMenamain (Xcel Energy) seconded the motion. The motion carried without opposition or abstention.

Chris Shaffer (American Electric Power) moved to amend the approval of SPP BA EOP V7.5 to include the SPP-ERCOT coordination plan within appendix C, and Allan George (Sunflower Electric Power Corporation) 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 (Eversource, Inc.) called the ORWG to order at 8:37 AM on 9/30/2020.

Agenda Item 2 – Attendance

Jason Tanner (Southwest Power Pool) called attendance and a meeting quorum was not reached.

Agenda Item 3 – Antitrust Statement

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

Agenda Item 4 – Agenda Review and Notification

Allen Klassen (Eversource, Inc.) reviewed the agenda.

Agenda Item 5 – Consent Agenda September 3, 2020 ORWG Meeting Minutes, September 17, 2020 ORWG Meeting Minutes, HITT S3 ESR C1, C2, C3, E4

Jeff Wells (Grand River Dam Authority) moved to approve the Consent Agenda, and Doug Peterchuck (Omaha Public Power District) seconded the motion. The motion carried without opposition and two abstentions.

Agenda Item 6 – Liaison Reports

6a – PFRTF Activities Update

Allan George (Sunflower Electric Power Corporation) noted a meeting schedule change and stated that PFRTF would meet next on 10/15.

6b - SRTF Activities Update

Jeff Wells (Grand River Dam Authority) stated that SRTF met last on 9/29 where the group discussed redline changes to the system restoration plan. Jeff stated that the group discussed potential use of RCOMM during restoration drills. Jeff stated that the group is close to finalizing its products and having ORWG monitor its action items.

6c - OCMTF Activities Update

Doug Peterchuck (Omaha Public Power District) stated that the OCMTF recently had discussions with MWG about the presentation of RR414. Doug stated that the discussion centered on ratings, and noted that the top rating provided should never be exceeded regardless of ratings methodology.

Agenda Item 7 – HITT M4 White papers and Recommendations

Charles Cates (Southwest Power Pool) reviewed the HITT M4 white papers and recommendations and stated that the dynamic line ratings (DLR) topic was deferred until the January MOPC. Charles stated that Topology Optimization was pulled from the consent agenda for discussion at the October MOPC, however Economic Outage Coordination was still on the consent agenda.

Dynamic Line Ratings:

Chris Shaffer (American Electric Power) stated that he doesn't think cost portion is substantial to all members due to some members already having the capabilities. Ron Gunderson (Nebraska Public Power District) stated there will be significant cost for those members who are not currently implementing DLR's. Jeff Wells (Grand River Dam Authority) stated that he agrees with Chris and Ron to address the cost statement. The group changed the cost statement to add the phrase "for those members currently not using dynamic line ratings". Allen Klassen (Evergy, Inc.) suggested changing the recommendation to state that paper does not cover cost. Bryn Wilson (Oklahoma Gas & Electric) asked if cost was addressed would it open the door for TO requirements on all circuits, and Charles Cates stated that it would be difficult to mandate.

Economic Outage Coordination and Topology Optimization:

Charles stated that we should work on reliability outage coordination enhancements before focusing on the economic enhancements. Jeff stated that he was in agreement with the position listed in report, and the ORWG performed a straw poll which saw the majority in agreement with the report position.

Jeff Wells (Grand River Dam Authority) moved that the ORWG acknowledge the SPP Staff whitepapers, which includes the ORWG recommendations to the MOPC for HITT M4 regarding Topology Optimization and Economic Outage Coordination. Chris Shaffer (American Electric Power) seconded the motion, and the motion carried without opposition or abstention.

Agenda Item 8 – HITT S3 recommendation E2

Daniel Harless (Southwest Power Pool) discussed the modeling options provided in the white paper, and stated that MWG was recommending option 2. Daniel stated that regardless of the option chosen individual components of the hybrid device will be modeled individually in the reliability model.

Ron Gunderson (Nebraska Public Power District) moved to approve HITT S3 ESR E2, and Chris Shaffer (American Electric Power) seconded the motion, and the motion carried without opposition or abstention.

Agenda Item 9 – MOPC Reorg

Erin Cathey (Southwest Power Pool) discussed the MOPC reorganization, and noted three basic categories: Advisory Groups, User Forums, and Working Groups. Erin stated that the new advisory groups will work with an oversight committee, and the user forums will report to MOPC but meet less frequently. Erin stated that SPP will also be aligning the working group meeting schedules for 2021. Allan Klassen (Evergy, Inc.) asked about how the responsibilities of the ORWG changes with the new reorganization. Erin stated that the responsibilities will be outlined in each group's scope and is expected to be effective by January, 2021. Ron Gunderson (Nebraska Public Power District) questioned if any impacts would occur to the makeup of ORWG or MWG representation. Erin stated that MWG did not propose changes to the working group representation, and Jason Tanner (Southwest Power Pool) stated that ORWG did not make any changes either.

Agenda Item 10 – ORWG Scope Review

Jason Tanner (Southwest Power Pool) discussed the redline changes to the ORWG scope, and explained that the changes are necessary for alignment with the MOPC reorganization efforts. Ron Gunderson (Nebraska Public Power District) made an adjustment to the term working groups and changed it to organizational groups, and

Erin Cathey (Southwest Power Pool) stated that after organizational groups, advisory and user forums should also be added. Jason Tanner discussed the language addition for business practices and stated that ORWG would need to take action on the proposed scope. Jason also noted that the effective date would be determined by CGC.

Ron Gunderson (Nebraska Public Power District) moved to approve the ORWG Scope as modified, and Abu Elteriefi (ITC Holdings) seconded the motion. The motion carried without opposition or abstention.

Agenda Item 11 – RR424 RC Area SOL Methodology Clean Up in Planning Criteria

Jason Tanner (Southwest Power Pool) discussed RR424 RC Area SOL Methodology Clean Up in Planning Criteria. Jason provided a background on the need for the RR, and stated that RR309 failed to contain the deletion language to the planning criteria Operating Horizon section. Jason stated because the planning criteria language was not deleted, duplicate language exist between the stand-alone document and the planning criteria. Jason stated that no links were broken to other documents with the deletion of the language. Jeff Wells (Grand River Dam Authority) asked if a motion was needed. Jason stated that ORWG will need to take action on the RR if approved, the RR will be routed to RCWG and RTWG.

Jeff Wells (Grand River Dam Authority) moved to approve RR424 as presented, and Bryn Wilson (Oklahoma Gas and Electric) seconded the motion. The motion carried without opposition or abstention.

Agenda Item 12 – SPP BA EOP V7.5

Margaret Quispe (Southwest Power Pool) reviewed the changes made to SPP BA EOP V7.5 based on feedback received from the previous meeting. Margaret stated that she is seeking approval of the document.

Ron Gunderson (Nebraska Public Power District) moved to approve the SPP BA EOP V7.5 as presented, and Kyle McMenammin (Xcel Energy) seconded the motion. The motion carried without opposition or abstention.

Chris Shaffer (American Electric Power) requested an amendment to appendix C of the SPP BA EOP V7.5. Chris stated that he would like to see appendix C include the SPP-ERCOT coordination plan. Ron Gunderson (Nebraska Public Power District) stated he did not have any objections to Chris's amendment. Allen Klassen (Eversource, Inc.) stated that he would allow the request and entertain a motion.

Chris Shaffer (American Electric Power) moved to amend the approval of SPP BA EOP V7.5 to include the SPP-ERCOT coordination plan within appendix C, and Allan George (Sunflower Electric Power Corporation) seconded the motion. The motion carried without opposition or abstention.

Agenda Item 13 – Outage Coordination Methodology, Generation

This agenda item was postponed to a future meeting.

Agenda Item 14 – RST Changes High-Level Schedule

Brett Springfield (Southwest Power Pool) presented a high level schedule of the Rating Submission Tool (RST) enhancement. Brett stated that the operating congestion management task force (OCMTF) proposed a RST

emergency timing requirement enhancement in May 2019. Brett stated that the OCMTF and SPP staff decided the enhancement will add one field with default value set to 30 (minutes). Allen Klassen (Evergy, Inc.) recommended that the schedule for testing and deploying the enhancement be communicated with to ensure that it is coordinated with the appropriate staff.

Agenda Item 15 – OCMTF RR414

William Ragsdale (Southwest Power Pool) discussed RR414 and stated that the goal of the revision request (RR) is to address reliability and compliance risk to the SPP RC and SPP TOPs. William stated that the RR will ensure compliance related to SOL exceedances and provide transparency to stakeholders regarding the use of emergency ratings and effective limits. William stated that the RR414 will reduce instances where RTBM lack of limit control results in N-1 flow exceedance of the limit. The RR will standardize existing processes of FG activation by setting limits in RTBM. William stated that the RR will also increase transparency by posting default effective limits publicly on OASIS. Gary Cate (Southwest Power Pool) stated that the overall cost to the consumer is not being considered in the RR. Gary stated that the costs to run at 95% are significant and if applied backwards into the planning process would most likely represent significant transmission build out to support the change. Gary stated that based on a one-off calculation by the SPP Planning department a 5% rating reduction caused the adjusted production cost (APC) to increase by approximately \$40 million. Gary also stated that at 3% rating reduction the APC would increase by \$21 million. Gary stated that that MWG and MMU's concern is not necessarily with the RR, but the practice in general. Ron Gunderson (NPPD) pointed out the RR will NOT impose a global percentage reduction to flowgate ratings. The RR does propose a global default to be utilized for the effective limit, but that is only a backstop to be utilized when SPP and the TOP have no experience with the flowgate. The RR also proposes pre-determined effective limits on an individual flowgate basis. These individual percentages are the values that would be utilized if a flowgate is automatically activated or manually activated. The vision is the change would provide more consistency in flowgate management due to differences in RC and operator perception of what is needed. By having a convenient way of knowing an effective limit that is adequate in maintaining flowgate flow within approved limits, it should actually provide more transfer capability while protecting the reliability of the Bulk Power System. Allen Klassen (Evergy, Inc.) stated that this RR would not be going to the October MOPC, since additional coordination and discussion will be required by MWG and ORWG.

Agenda Item 16 – HITT S3, ESR Tx1

Allen Klassen (Southwest Power Pool) stated that Tx1 is targeting the January MOPC, and the TWG group is working in coordination with ORWG and ESWG for the deliverable. Allen stated that the task team is recommending a change to the original recommendation which called for the development of a procedure for handling an ESR transmission facility when the ESR's duration is insufficient to meet the transmission issue. Allen stated that the task team believes the problem statement may be too narrow in scope, and issue would be better addressed by simply eliminating insufficient solutions to the extent possible. Allen stated that with this direction change the ORWG team will need to adjust our position in the paper.

Agenda Item 17 – Meeting Schedule

- a. 11/5/2020 WebEx (Thurs) 0830-1200
- b. 12/3/2020 WebEx (Thurs) 0830-1200
- c. 01/7/2021 WebEx (Thurs) 0830-1200



- d. 02/3/2021 WebEx (Wed) 0830-1200
- e. 02/4/2021 WebEx (Thurs) 0830-1200
- f. 03/3/2021 WebEx (Wed) 0830-1200
- g. 03/4/2021 WebEx (Thurs) 0830-1200
- h. 04/1/2021 WebEx (Thurs) 0830-1200
- i. 5/5 – 5/6/2021 Face to Face (Tulsa, OK)(GRDA) – Tentative
- j. 6/3/2021 WebEx (Thurs) 0830-1200
- k. 06/29/2021 WebEx (Tues) 0830-1200
- l. 08/5/2021 WebEx (Thurs) 0830-1200
- m. 09/1 – 9/2/2021 Face to Face (Amarillo, TX)(Xcel Offices) – Tentative
- n. 10/7/2021 WebEx (Thurs) 0830-1200
- o. 11/4/2021 WebEx (Thurs) 0830-1200
- p. 12/2/2021 WebEx (Thurs) 0830-1200

Agenda Item 18 – Adjournment

Chairman Allen Klassen (Eversource, Inc.) adjourned the ORWG at 12:33 PM on 10/1/2020.

Respectfully Submitted,
Jason Tanner, Secretary



Operating Reliability Working Group
Meeting Attendance:10/01/2020
M=Member, G=Guest, S=SPP Staff, P= Proxy

| | | Name | Status | Company |
|---|----|------------------------------|--------|---|
| x | 1 | Allen Klassen, Chairman | M | Evergy, Inc. |
| 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 |
| a | 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 | Mark Eastwood | M | City Utilities of Springfield |
| x | 10 | Doug Peterchuck | M | Omaha Public Power District |
| x | 11 | Bryn Wilson | M | Oklahoma Gas and Electric Co. |
| x | 12 | Chris Shaffer | M | American Electric Power |
| x | 13 | David Pham | M | Empire District Electric Company |
| 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 | Keith Carman | M | Tri-State G&T |
| x | 18 | Tyler Springer | G | American Electric Power |
| x | 19 | Julie Way | G | Evergy, Inc. |
| x | 20 | Jason Mazigian | G | Basin Electric Power Cooperative |
| x | 21 | Pablo Ruiz | G | Brattle Group |
| x | 22 | Steve Gaw | G | The Wind Coalition |
| x | 23 | Chris Lyons | G | Customized Energy Solutions |
| x | 24 | Ron Thompson | G | Nebraska Public Power District |
| x | 25 | Mike Buyce | G | City Utilities of Springfield |
| x | 26 | Michael Massery | G | Electric Cooperatives of Arkansas |
| x | 27 | Richard Ross | G | American Electric Power |
| x | 28 | Alycia Kramer | G | Basin Electric Power Cooperative |
| x | 29 | Ryan Koch | G | Basin Electric Power Cooperative |
| x | 30 | Tucker Smith | G | Basin Electric Power Cooperative |
| x | 31 | Jeff Knottek | G | City Utilities of Springfield |
| x | 32 | seth cochran | G | DC Energy |
| x | 33 | Jim Flucke | G | Evergy, Inc. |
| x | 34 | Jack Madden | G | GDS ASSOCIATES, INC. |
| x | 35 | Eric Alexander | G | Grand River Dam Authority |
| x | 36 | Shawn Geil | G | Kansas Electric Power Cooperative, Inc. |
| x | 37 | Lee Anderson | G | Lincoln Electric System |
| x | 38 | Aaron Rome - MIDW | G | Midwest Energy |
| x | 39 | Marc Zolnierz | G | Midwest Energy |
| x | 40 | Jack Clark | G | NextEra Energy Inc |
| x | 41 | John Hare | G | Oklahoma Gas and Electric Co. |
| x | 42 | Kevin Ma | G | Oklahoma Gas and Electric Co. |
| x | 43 | Rich Owen | G | Oklahoma Gas and Electric Co. |
| x | 44 | Shawn McBroom | G | Oklahoma Gas and Electric Co. |
| x | 45 | Adam Schieffer | G | Omaha Public Power District |
| x | 46 | Jerry McVey | G | Sunflower Electric Power Corporation |
| x | 47 | Yohan Sutjandra | G | The Energy Authority |
| x | 48 | Ben Hammer | G | Western Area Power Administration |
| x | 49 | clay carr | G | Western Farmers Electric Cooperative |
| x | 50 | Neal Faltys | G | Omaha Public Power District |
| x | 51 | Sean Erickson | G | Western Area Power Administration |
| x | 52 | Tom Kay | G | Invengery |
| x | 53 | Tom Mayhan | G | Omaha Public Power District |
| x | 54 | Tanner New | G | Sunflower Electric Power Corporation |
| x | 55 | Jimmy Wheeler | G | Southwestern Power Administration |
| x | 56 | Jason Tanner | S | Southwest Power Pool |
| x | 57 | Barbara Stroope | S | Southwest Power Pool |
| x | 58 | Brett Springfield | S | Southwest Power Pool |

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|---|----|-----------------|---|----------------------|
| x | 59 | Bryan Wood | S | Southwest Power Pool |
| x | 60 | Charles Cates | S | Southwest Power Pool |
| x | 61 | Cook Cook | S | Southwest Power Pool |
| x | 62 | Daniel Harless | S | Southwest Power Pool |
| x | 63 | Erin Cathey | S | Southwest Power Pool |
| x | 64 | Frank Flores | S | Southwest Power Pool |
| x | 65 | Gary Cate | S | Southwest Power Pool |
| x | 66 | James Williams | S | Southwest Power Pool |
| x | 67 | Jeff Rooker | S | Southwest Power Pool |
| x | 68 | Kevin Bates | S | Southwest Power Pool |
| x | 69 | Margaret Quispe | S | Southwest Power Pool |
| x | 70 | Scott Aclin | S | Southwest Power Pool |
| x | 71 | Scott Brown | S | Southwest Power Pool |
| x | 72 | Terry Oxandale | S | Southwest Power Pool |
| x | 73 | Tim Herr | S | Southwest Power Pool |
| x | 74 | Will Ragsdale | S | Southwest Power Pool |
| x | 75 | Will Tootle | S | Southwest Power Pool |
| x | 76 | Yasser Bahbaz | S | Southwest Power Pool |
| x | 77 | Zachary Sharp | S | Southwest Power Pool |