

**SOUTHWEST POWER POOL
OPERATING RELIABILITY WORKING GROUP MEETING**

Thursday May 6, 2021 8:30 AM – 12:30 PM (CPT)
Net Conference

SUMMARY OF MOTIONS AND ACTION ITEMS

- Jeff Wells (Grand River Dam Authority) made a motion to approve the consent agenda which included the April 1, 2021 ORWG Meeting Minutes and the 2021 RSG Obligation Ratio. Ron Gunderson (Nebraska Public Power District) seconded the motion. The motion carried without opposition or abstention.
- Daniel Baker (SPP) discussed the need for PFRTF representation from GOPs to be successful and took an action item to send out a current list of active members on the taskforce to the ORWG Exploder, requesting participation.
- Jeff Wells (Grand River Dam Authority) motioned to rescinded the August 2020 ORWG motion to postpone their decision on the Thunderhead RAS until the outcome of the Holt substation litigation was known, based on the information learned today regarding the upgrades and completion of the substation associated with the RAS. Chris Shaffer (AEP) seconded the motion. The motioned passed with no opposition and a single abstention from Ron Gunderson (Nebraska Public Power District).
- Chris Shaffer made a motion that the ORWG approve the Invenergy Thunderhead RAS given the following conditions:
 - Require agreement between NPPD, WAPA, and Invenergy on compliance responsibilities.
 - Contingent on execution of the GIA including the identified network upgrades and the timeline for installation and completion.
 - Maximum of a two year time frame of being in-service, with the implementation of the RAS to begin no more than two years prior to the expected in-service date of the "R-Line" or other contingency project.

Jeff Wells seconded the motion. The motioned passed with no opposition and a single abstention from Ron Gunderson.

- Zachary Sharp took an action item to schedule a RR449 information session later in the month of May.
- Ron Gunderson (Nebraska Public Power District) made a motion that the ORWG approve RR440. Laurie Gregg (Lincoln Electric System) seconded the motion. The motion was unanimously approved.

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MINUTES

AGENDA ITEMS 1-4 – ADMINISTRATIVE ITEMS

SPP Chair Allen Klassen (Evergy, Inc.) called the meeting to order at 8:33 on 5/6/2021.

Zachary Sharp (SPP) took attendance and established a meeting quorum. Brittany Gray (Xcel) has Kyle McMenamin (Xcel) proxy. A record of member attendance will be provided as an attachment to these minutes.

Zachary Sharp (SPP) read the SPP Antitrust Statement.

Chairman Allen Klassen (Evergy, Inc.) reviewed the agenda.

AGENDA ITEM 5 – CONSENT AGENDA

Jeff Wells (Grand River Dam Authority) made a motion to approve the consent agenda which included the April 1, 2021 ORWG Meeting Minutes and the 2021 RSG Obligation Ratio. Ron Gunderson (Nebraska Public Power District) seconded the motion. The motion carried without opposition or abstention.

AGENDA ITEM 6 – LIASON REPORTS

PRIMARY FREQUENCY RESPONSE TASK FORCE (PFRTF) ACTIVITIES UPDATE

The PFRTF met last on 4/29 and reviewed actions items and discussed next steps for delivery of draft for comments to ORWG. PFRTF would like to hear feedback and comments to any required additions to their Interim Report. Draft to go to ORWG members for review in the near future. List of items that still need to be input to report.

1. Add Wind penetration vs Frequency Response plots discussed during March PFRTF meeting to interim report.
2. Add verbiage to the report describing the correlation between Wind penetration vs Frequency Response and the impact to SPP's frequency response to complete report.
3. Distribute report with additional plots and language to the team.

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4. Historical trend seems to be showing lower pass rate for SPP for BAL-003 compliance even during smaller frequency drops, could be problematic for larger frequency drop events.
5. Team to work towards a solution to ensure that SPP remains compliant and reliable.

Daniel Baker (SPP) discussed the need for PFRTF representation from GOPs to be successful and took an action item to send out a current list of active members on the taskforce to the ORWG Exploder, requesting participation.

OPERATIONS CONGESTION MANAGEMENT TASK FORCE (OCMTF) ACTIVITIES UPDATE

Doug Peterchuck (OPPD) provided an update on the OCMTF activities. The task force is taking RR414 to RTWG for approval in May and plans to get MOPC approval at the July meeting. The group is also finalizing quarterly metrics.

ELECTRIC STORAGE RESOURCES STEERING COMMITTEE (ESRSC) ACTIVITIES UPDATE

Allen Klassen (Evergy, Inc.) provided an update on ESRSC activities. The group last met on April 26th. SPP is working to incorporate language from MISO definition of a SATOA (Storage as Transmission Only Asset). The main complication is the differences in Market Design between SPP and MISO. Once SATOA is defined, multi-use can be explored.

ORDER 2222 TASK FORCE (O2222TF) ACTIVITIES UPDATE

Ron Gunderson (Nebraska Public Power District) provided an update on the O2222TF activities. FERC approved SPP's extension request to April 2022. The taskforce is now meeting monthly. April discussions were focused on April MOPC presentation. Communications with distribution utilities is the current focus. Ron Discussed Order 2222-A, which declines to extend the "opt-out" provision to demand response resources that participate in a heterogeneous DER aggregation. Next meeting is May 11th.

AGENDA ITEM 7 – THUNDERHEAD RAS

Tom Kay (Invenergy) gave an update on the Thunderhead project. FERC has granted a Waiver to enable consideration of an alternate POI should the Holt site be delayed indefinitely.

Jeff Wells (Grand River Dam Authority) motioned to rescinded the August 2020 ORWG motion to postpone their decision on the Thunderhead RAS until the outcome of the Holt substation litigation was known, based on the information learned today regarding the upgrades and completion of the substation associated with the RAS. Chris Shaffer (AEP) seconded the motion.

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The motioned passed with no opposition and a single abstention from Ron Gunderson (Nebraska Public Power District).

Chris Shaffer made a motion that the ORWG approve the Invenergy Thunderhead RAS given the following conditions:

- Require agreement between NPPD, WAPA, and Invenergy on compliance responsibilities.
- Contingent on execution of the GIA including the identified network upgrades and the timeline for installation and completion.
- Maximum of a two year time frame of being in-service, with the implementation of the RAS to begin no more than two years prior to the expected in-service date of the "R-Line" or other contingency project.

Jeff Wells seconded the motion. The motioned passed with no opposition and a single abstention from Ron Gunderson.

AGENDA ITEM 8 – RR449 – UNCERTAINTY PRODUCT

Ryan Schoppe (SPP) presented RR449. The consensus was that the ORWG needed more time to consider the reliability impacts of the RR. Zachary Sharp took an action item to schedule a RR449 information session later in the month of May.

AGENDA ITEM 9 – RR440 – DDR RESOURCE MODELING REGISTRATION CLARIFICATION

Kristen Darden (SPP) presented on RR440.

Ron Gunderson (Nebraska Public Power District) made a motion that the ORWG approve RR440. Laurie Gregg (Lincoln Electric System) seconded the motion. The motion was unanimously approved.

AGENDA ITEM 10 – 3 TERMINAL LINE WHITEPAPER

This agenda item was not covered due to time constraints. The ORWG invited Jeff Beasley (Grand River Dam Authority) to the June 3rd ORWG meeting to present this topic.

AGENDA ITEM 11 – SPP OSCILLATION SOURCE LOCATION

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This agenda item was not covered due to time constraints. The ORWG invited Ryan Lott (SPP) to the June 3rd ORWG meeting to present this topic.

AGENDA ITEM 14-15 – ACTION ITEM REVIEW

Zachary Sharp (SPP) noted two new action items as noted previously in these minutes.

AGENDA ITEM 16 – GENERAL Q&A

None

AGENDA ITEM 17 – MEETING SCHEDULE

- a. 05/13/2021 WebEx (Thurs) 1300-1500 (Summer Preparedness Workshop)
- b. 05/19/2021 WebEx (Wed) 0900-1200 (Order 2222 Joint Discussion)
- c. 6/3/2021 WebEx (Thurs) 0830-1200
- d. 06/16/2021 WebEx (Wed) 0900-1200 (Order 2222 Joint Discussion)
- e. 06/29/2021 WebEx (Tues) 0830-1200
- f. 08/5/2021 WebEx (Thurs) 0830-1200
- g. 09/2/2021 WebEx (Thurs) 0830-1200
- h. 10/7/2021 WebEx (Thurs) 0830-1200
- i. 11/4/2021 WebEx (Thurs) 0830-1200
- j. 12/2/2021 WebEx (Thurs) 0830-1200

AGENDA ITEM 18 – ADJOURNMENT

SPP Chair Allen Klassen (Evergy, Inc.) adjourned the ORWG at 11:58 AM on 5/6/2021.

Respectfully Submitted,

Zachary Sharp, ORWG Staff Secretary

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SUMMARY OF ATTACHMENTS:

ORWG 5/6/2021 Agenda (pg. 8-9)

ORWG Member Attendance (pg. 10)



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OPERATING RELIABILITY WORKING GROUP MEETING**

**Net Conference
Thursday May 6, 2021 8:30 AM – 12:00 PM (CPT)**

AGENDA

Administrative Items

- 1. Call to Order..... Allen Klassen
- 2. Attendance..... Zachary Sharp
- 3. Antitrust StatementAllen Klassen/Zachary Sharp
- 4. Agenda Review.....Allen Klassen/Zachary Sharp

Consent Agenda

- 5. For Consent (Action) Allen Klassen
 - April 1, 2021 ORWG Meeting Minutes..... Zachary Sharp
 - 2021 RSG Obligation Ratio Trey Rosel

Pulled from Consent

Liaison Reports

- 6. Liaison Reports (Written Reports and Presentations) Allen Klassen (15m)
 - a. PFRTF Activities Update Allan George/Daniel Baker
 - OCMTF Activities Update Doug Peterchuck/Jack Williamson
 - ESRSC Activities Update Allen Klassen
 - Order 2222 TF Activities Update Ron Gunderson

Approval Items and Staff Reports for Discussion

- 7. Thunderhead RAS (Email Approval).....Tom Kay (45m)
- 8. RR449 – Uncertainty Product (Approval).....Ryan Schoppe (60m)
- 9. RR440 – DDR Resource Modeling Registration Clarification (Approval) Kristen Darden(30m)
- 10. 3 Terminal Line Whitepaper (Discussion)Jeff Beasley (30m)
- 11. SPP Oscillation Source Location (Discussion)..... Ryan Lott (30m)

Other Items

Action Item Review

12. Review of Open and Closure Pending Actions..... Zachary Sharp

13. New Action Items..... Zachary Sharp

Q&A/Open Forum

14. General Q&A/Open Forum All

Future Meetings

15. Meeting Schedule All

05/13/2021 WebEx (Thurs) 1300-1500 (Summer Preparedness Workshop)

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10/7/2021 WebEx (Thurs) 0830-1200

11/4/2021 WebEx (Thurs) 0830-1200

12/2/2021 WebEx (Thurs) 0830-1200

Adjournment Allen Klassen

ORWG Member Attendance:

| Name | Company | Role | 5/6/2021 |
|-----------------|--------------------------------------|------------|----------|
| Allen Klassen | Evergy, Inc | Chair | ✓ |
| Ron Gunderson | Nebraska Public Power District | Vice Chair | ✓ |
| Keith Carman | Tri-State G&T | Member | ✓ |
| Mark Eastwood | City Utilities of Springfield MO | Member | ✓ |
| Abu Elteriefi | ITC Great Plains, LLC | Member | ✓ |
| Allan George | Sunflower Electric Power Corp | Member | ✓ |
| Laurie Gregg | Lincoln Electric System | Member | ✓ |
| Kyle McMenamain | Xcel Energy | Member | * |
| Chance Myers | Western Farmers Electric Cooperative | Member | ✓ |
| Doug Peterchuck | Omaha Public Power District | Member | ✓ |
| Gary Plummer | Independence Power & Light | Member | ✓ |
| David Pham | Liberty Utilities | Member | ✓ |
| Chris Shaffer | American Electric Power | Member | ✓ |
| Jim Useldinger | GridLiance High Plains | Member | ✓ |
| Jeff Wells | Grand River Dam Authority | Member | ✓ |
| Bryn Wilson | Oklahoma Gas & Electric | Member | ✓ |
| Zachary Sharp | Southwest Power Pool | Secretary | ✓ |

*Note that Kyle McMenamain (Xcel Energy) was represented by proxy Brittany Gray (Xcel Energy)