

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

Thursday November 4, 2021 8:30 AM – 3:00 PM (CPT)
Net Conference

SUMMARY OF MOTIONS AND ACTION ITEMS

- Ron Gunderson (NPPD) motioned that the ORWG approve the consent agenda which includes the *October 6-7, 2021 ORWG Meeting Minutes*. Jeff Wells (GRDA) seconded the motion. The motion carried without opposition or abstention.
- Ron Gunderson (NPPD) motioned that the ORWG approve the *System Operating Limit Methodology Task Force (SOLMTF) Charter*, should the ORWG Chair move to create such task force. Bryn Wilson (OGE) seconded the motion. The motion carried without opposition or abstention.
- Ron Gunderson (NPPD) motioned that the ORWG approve *RR468 – Order 2222 Compliance* as presented. Laurie Gregg (LES) seconded the motion. The motion carried without opposition or abstention.
- Chris Shaffer (AEP) motioned that the ORWG approve *RR476 – Storage as Transmission* as presented. Matt Pawlowski (NextEra) seconded the motion. The motion carried without opposition and one abstention from Jeff Wells (GRDA).
- Jeff Wells (GRDA) motioned that the ORWG endorse the study proposal with the intent of determining the maximum battery penetration threshold with respect to HITT C.3. Kyle McMenamin (Xcel Energy) seconded the motion. The motion carried with one opposition from Ron Gunderson (NPPD) and no abstentions.

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MINUTES

AGENDA ITEMS 1-4 – ADMINISTRATIVE ITEMS

ORWG Chair Allen Klassen (Evergy, Inc.) called the meeting to order at 8:36 AM on 11/4/2021.

Zachary Sharp (SPP) took attendance and established a meeting quorum. A record of member attendance will be provided as an attachment to these minutes. Proxies for ORWG Members are as follows: Michael Sarkis (ITC) proxy for Abu Elteriefi (ITC), Tanner New (SECI) for Allan George (SECI).

Zachary Sharp (SPP) read the SPP Antitrust Statement.

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

AGENDA ITEM 5 – CONSENT AGENDA

Ron Gunderson (NPPD) motioned that the ORWG approve the consent agenda which includes the *October 6-7, 2021 ORWG Meeting Minutes*. Jeff Wells (GRDA) seconded the motion. The motion carried without opposition or abstention.

AGENDA ITEM 6 – LIAISON REPORTS

ELECTRIC STORAGE RESOURCES STEERING COMMITTEE (ESRSC) ACTIVITIES UPDATE

Allen Klassen (Evergy) gave an update. The ESRSC last met October 28th and discussed RR476. The ESRSC is waiting on secondary working groups to review RR476 before moving forward with approval. RR476 will be presented at today's meeting.

ORDER 2222 TASK FORCE (O2222TF) ACTIVITIES UPDATE

Ron Gunderson (NPPD) gave an update. The O2222TF last met November 2nd where they approved changes to RR468 which will be presented at today's meeting.

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IMPROVED RESOURCE AVAILABILITY TASK FORCE

Bryn Wilson (OGE) gave an update. The IRATF last met on October 20th where they discussed generator survey results and initiative scopes. A new Tier 1 initiative was added concerning generation retirements. The group also discussed the attributes associated with RPA1.

Allen Klassen (Evergy) added that the group discussed promoting a Tier 2 initiative concerning the shedding of fuel supply critical loads to Tier 1, but it was ultimately decided that this was not a root cause issue, and should stay as Tier 2. Allen also reviewed a term used at IRATF called 'Dunkelflaute', which loosely translates to 'Dark Wind Lull' and describes a period of time where wind and solar generation is minimal.

AGENDA ITEM 7 – FERC ORI, SEASONAL RATINGS

Charles Cates (SPP), presented on an Operational Reliability Improvement (ORI) coming out of SPP's June 2021 FERC audit. The ORI states that facility ratings should reflect duration of loading and seasonal ambient temperatures. FERC suggested utilizing the SOL Methodology to improve facility ratings.

AGENDA ITEM 8 – SOL METHODOLOGY TASK FORCE CREATION

Charles Cates (SPP) proposed the creation of a System Operating Limits Methodology Task Force (SOLMTF) that would report to the ORWG. A proposed charter and scope of activities for the SOLMTF was also presented.

Ron Gunderson (NPPD) motioned that the ORWG approve the *System Operating Limit Methodology Task Force (SOLMTF) Charter*, should the ORWG Chair move to create such task force. Bryn Wilson (OGE) seconded the motion. The motion carried without opposition or abstention.

Allen Klassen (Evergy) approved of the creation of the SOLMTF. Jeff Wells (GRDA) nominated Chris Shaffer (AEP) to chair the SOLMTF. Allen asked that members email member nominations for the SOLMTF to Chris Shaffer, Zachary Sharp and himself.

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AGENDA ITEM 9 – RR468 – ORDER 2222 COMPLIANCE

Patti Kelly (SPP) presented *RR468 – Order 2222 Compliance* to the ORWG.

Ron Gunderson (NPPD) motioned that the ORWG approve *RR468 – Order 2222 Compliance* as presented. Laurie Gregg (LES) seconded the motion. The motion carried without opposition or abstention.

AGENDA ITEM 10 – RR476 – STORAGE AS TRANSMISSION

Daniel Harless (SPP) and Joshua Pilgrim (SPP) presented *RR476 – Storage as Transmission* to the ORWG.

Chris Shaffer (AEP) motioned that the ORWG approve *RR476 – Storage as Transmission* as presented. Matt Pawlowski (NextEra) seconded the motion. The motion carried without opposition and one abstention from Jeff Wells (GRDA).

AGENDA ITEM 11 – HITT C.3. STORAGE PENETRATION

Chris Haley (SPP) presented a study proposal with the intent of determining the maximum battery penetration threshold with respect to HITT C.3.

Ron Gunderson (NPPD) asked if transmission constraints would be considered as part of the study. Chris Haley stated that some level of import/export capability is considered, but transmission congestion is not the focus of the ELCC study.

Jeff Wells (GRDA) motioned that the ORWG endorse the study proposal with the intent of determining the maximum battery penetration threshold with respect to HITT C.3. Kyle McMenamain (Xcel Energy) seconded the motion. The motion carried with one opposition from Ron Gunderson (NPPD) and no abstentions.

AGENDA ITEM 12 – R-COMM UPDATES

Margaret Quispe (SPP) gave an update on the R-Comm restoration testing that took place in September and October. The update is planned to move to the production environment in early December 2021.

Margaret also discussed the R-Comm load shed page testing in MTE happening in November and December. This update is planned to go to the production environment in January 2022.

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AGENDA ITEM 13 – WINTER COAL SUPPLY CONCERNS

Scott Aclin (SPP) led a brief conversation, asking the ORWG if they had any coal supply concerns heading into the winter season. No concerns were noted. Jeff Wells (GRDA) mentioned that derates attributed to fuel supply issues with coal generation could be due to bad fuel, where a plant's coal reserves has sat idle and deteriorated in quality over time.

AGENDA ITEM 14 – RR455 – GIA EMT MITIGATION

Doug Bowman (SPP) present *RR455 – GIA EMT Mitigation* to the group. This RR requires the Generation Interconnection (GI) customer to, prior to the Customer-Commercial Operation Date (COD), correct all reliability problems found in the EMT study. The ORWG noted that the COD is not the first instance in which a GI customer may supply power to the grid, and that the language should be changed to ensure corrections are made prior to any injection of power into the BES.

AGENDA ITEM 15 – CONGESTION MANAGEMENT METRICS, 6/1/21-9/30/2021

Jack Williamson (SPP) presented congestion metrics for June, July, August and September 2021 to the ORWG. The group noted the sizeable uptick in congestion in 2021, with emphasis put on constraints that had post-contingent exceedances over 100% for 30 or more consecutive minutes. ORWG members expressed concern about the trend and ~~noted~~ asked SPP how the trend would be reversed.

AGENDA ITEM 16 – CASCADING OUTAGE METRICS

Will Tootle (SPP) presented metrics on cascading analysis conducted between 7/15/2021 and 10/15/2021. During this time there were 13,447 cascading events noted. Of those events 638 showed a potential for loss of load.

AGENDA ITEM 17 – REVIEW OF NEW, OPEN AND CLOSURE PENDING ACTIONS

None noted.

AGENDA ITEM 18 – GENERAL Q&A/OPEN FORUM

Chris Shaffer (AEP) led a discussion on geomagnetic disturbances (GMD) and the group discussed at what GMD levels they begin to take action. Margaret Quispe (SPP) noted that R-Comm is now notifying on all GMD level changes.

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AGENDA ITEM 19 – MEETING SCHEDULE

2021:

12/2/2021 WebEx (Thurs) 8:30 AM – 3:00 PM

2022:

1/6/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

2/3/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

3/3/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

3/31/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

May 2022 Face-to-Face (SPP Offices, Little Rock, AR)

- 5/4/2022 8:00 AM – 5:00 PM
- 5/5/2022 8:00 AM – 12:00 PM

6/2/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

6/30/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

8/4/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

9/1/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

September 2022 Face-to-Face (SPP Offices, Little Rock, AR)

- 9/28/2022 8:00 AM – 5:00 PM
- 9/29/2022 8:00 AM – 12:00 PM

11/3/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

12/8/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

AGENDA ITEM 20 – ADJOURNMENT

SPP Chair Allen Klassen (Evergy, Inc.) adjourned the ORWG at 3:05 PM on 11/4/2021.

Respectfully Submitted,

Zachary Sharp, ORWG Staff Secretary

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SUMMARY OF ATTACHMENTS:

ORWG 11/4/2021 Agenda (pg. 8-9)

ORWG Member Attendance (pg. 10)

**SOUTHWEST POWER POOL, INC.
OPERATING RELIABILITY WORKING GROUP MEETING**

Net Conference

Thursday November 4, 2021 8:30 AM – 3:00 PM (CPT)

AGENDA

1. Call to Order..... Allen Klassen
2. Attendance..... Zachary Sharp
3. Antitrust StatementAllen Klassen/Zachary Sharp
4. Agenda Review..... Allen Klassen
5. For Consent (Action) Allen Klassen
 - October 6-7, 2021 ORWG Meeting Minutes Zachary Sharp
6. Liaison Reports..... Allen Klassen (15m)
 - a. ESRSC Allen Klassen
 - Order 2222 TF..... Ron Gunderson
 - IRATF..... Bryn Wilson/Allen Klassen
7. FERC ORI – Seasonal Ratings (Discussion)..... Charles Cates (10m)
8. SOL Methodology Task Force Creation (Action) Charles Cates (20m)
9. RR468 – Order 2222 Compliance (Action) Patti Kelly (60m)
10. RR476 – Storage as Transmission (Action)..... Joshua Pilgrim/Daniel Harless (30m)
11. HITT C.3. Storage Penetration (Action).....Chris Haley (30m)
12. R-Comm Updates (Discussion)..... Margaret Quispe (15m)
13. Winter Coal Supply Concerns (Discussion)Yasser Bahbaz (20m)
14. RR455 – GIA EMT Mitigation (Discussion) Doug Bowman (20m)
15. Congestion Management Metrics, 6/1/21-9/30/21 (Discussion)..... Jack Williamson (30m)
16. Cascading Outage Metrics (Discussion) Will Tootle (20m)
17. Review of New, Open and Closure Pending Actions Zachary Sharp
18. General Q&A/Open Forum All
19. Meeting Schedule Review..... All

2021:

- 12/2/2021 WebEx (Thurs) 8:30 AM – 3:00 PM

2022:

- 1/6/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- 2/3/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- 3/3/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- 3/31/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- May 2022 Face-to-Face (SPP Offices, Little Rock, AR)
- 5/4/2022 8:00 AM – 5:00 PM
- 5/5/2022 8:00 AM – 12:00 PM
- 6/2/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- 6/30/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- 8/4/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- 9/1/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- September 2022 Face-to-Face (SPP Offices, Little Rock, AR)
- 9/28/2022 8:00 AM – 5:00 PM
- 9/29/2022 8:00 AM – 12:00 PM
- 11/3/2022 WebEx (Thurs) 8:30 AM – 2:30 PM
- 12/8/2022 WebEx (Thurs) 8:30 AM – 2:30 PM

20. Adjournment.....Allen Klassen

ORWG Member Attendance:

Name	Company	Role	11/4/2021
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 McMenemy	Xcel Energy	Member	✓
Chance Myers	Western Farmers Electric Cooperative	Member	✓
Matt Pawlowski	NextEra	Member	✓
Doug Peterchuck	Omaha Public Power District	Member	✓
David Pham	Liberty Utilities	Member	✓
Gary Plummer	Independence Power & Light	Member	✓
John Roemen	Western Area Power Administration	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: Abu Elteriefi and Allan George both started the meeting with proxy representation, but were both able to join the meeting later in the morning.