

Southwest Power Pool, Inc.

TRANSMISSION WORKING GROUP MEETING

February 28 – March 1, 2022

Net-Conference

SUMMARY OF MOTIONS AND ACTIONS

Action:

- Approved **2-28-2022 TWG Consent Agenda**
 - TWG Meeting Minutes from 1/31/2022
 - Crossroads-Sagamore RAS retirement
- Approved **RR 482 - RAR Approvals**
- Approved **RR 451 - Pooled Surplus Interconnection Service**
- Approved **RR 452 - Transmission Owner Project Evaluation Process**
- Approved **2021 ITP Further Evaluation of Crossroads-Phantom 345 kV Project Scope document**
- Approved **2021 ITP Further Evaluation base reliability (BR) powerflow models** with the following conditions:
 - Removal of the 80 MW EOG Loads with final models posted once the change is made
- Approved **2022 TPL-001-5 Scope revisions**
- Endorsed **Sponsored Upgrade Study 024 Oktaha 345/161 kV** work and study report
- Endorsed the **Remedial Action Scheme Criteria document** to advance into a formal SPP Revision Requests with the following conditions:
 - Further discussion on the 200 MW Threshold Screening Criteria
 - Further consideration on additional approval criteria within the working group approval process
- Approved the adoption of a **“fuel-based” dispatch as revised in tables presented at the meeting for analyzing current requests in GI studies commencing with DISIS-2017-002 Phase 2 and subsequent clusters** with the following conditions:
 - The exception will be that prior-queued generators at an electrically equivalent point of interconnection (POI) will be dispatched as current study requests
 - The levels for specific fuel-types will be updated regularly with TWG approval
- Endorsed **disabling “area interchange control” when analyzing non-generator contingencies in GI studies**

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MINUTES

AGENDA ITEM 1 – ADMINISTRATIVE ITEMS

Transmission Working Group (TWG) Chair Derek Brown, Evergy Companies, called the meeting to order at 1:00 pm. On February 1, 2022. The following members attended or represented by proxy:

Joshua Verzal, Omaha Public Power District, (Vice Chair)
Jarred Cooley, Xcel Energy SPS
Andrew Berg, Missouri River Energy Services
Arash Ghodsian, EDF Renewables
Clifford Franklin, Sunflower Electric Power Corporation
Gayle Nansel, Western Area Power Administration
James Ging, Kansas Power Pool
Jason Shook, GDS Associates
Jim McAvoy, Oklahoma Municipal Power Authority
Joe Fultz, Grand River Dam Authority
Jarred Cooley, Xcel Energy SPS
John Boshears, City Utilities of Springfield Missouri
John Knofczynski, East River Electric Power Cooperative
Kalun Kelley, Western Farmers Electric Cooperative
Matt McGee, American Electric Power
Michael Mueller, Arkansas Electric Cooperative Corporation
Michael Wegner, ITC Holdings
Nate Morris, Liberty
Nathan McNeil, Midwest
Noman Williams, GridLiance
Phil Westby, Basin Electric Power Cooperative
Randy Lindstrom, Nebraska Public Power District
Shane McMinn, Golden Spread Electric Cooperative
Scott Benson, Lincoln Electric System
Steve Hardebeck, Oklahoma Gas & Electric

Adam Bell (SPP) confirmed there was a quorum and provided the antitrust statement. Derek Brown reviewed the agenda for any changes.

Cliff Franklin (SEPC) made a motion for the TWG to approve the meeting agenda. Jarred Cooley (SPS) seconded the motion. The motion passed unanimously.

AGENDA ITEM 1E – CONSENT AGENDA

The consent agenda included the following:

- i. January 31, 2022 TWG Meeting Minutes
- ii. Crossroads-Sagamore RAS Retirement

Jarred Cooley (SPS) made a motion for the TWG to approve meeting consent agenda. Cliff Franklin (SEPC) seconded the motion. The motion passed unanimously.

AGENDA ITEM 2 – RR 482 – RESOURCE ADDITION REQUESTS (RAR) APPROVALS

Mrs. Brooke Keene (SPP) revisited RR 482 – RAR Approvals for further discussion. Mrs. Keene presented a final adjustment to the language in order to address the TWG’s concerns at a previous meeting. The group discussed the changes before voting.

Randy Lindstrom (NPPD) made a motion for the TWG to approve RR 482 - RAR Approvals. Cliff Franklin (SEPC) seconded the motion. The motion passed unanimously.

AGENDA ITEM 3 – TWG ACTION ITEM (AI) 209 ON SURPLUS INTERCONNECTION STUDIES

Mr. Steve Purdy (SPP) provided an overview on Surplus Service. Mr. Purdy spoke about the origins of surplus service mandate. Jason Tanner (SPP) reviewed the Surplus Service study process. Mr. Tanner guided the group through the flowchart, addressing questions from the group. The group expressed concerns on the methodology. Brandon Hentschel (SPP) reviewed modeling and transmission service. Mr. Hentschel provided details on future revision request that would have an impact on surplus service. Alex Crawford (SPP) spoke about resource adequacy of surplus capacity resources. TWG members had additional questions regarding the study process and the request to combine multiple related RR’s if possible to provide a clear picture of this effort. The TWG action item will remain open as staff will address additional questions posed at the meeting in a future update.

AGENDA ITEM 4 – RR 451 - POOLED SURPLUS INTERCONNECTION SERVICE

Mrs. Marisa Choate (SPP) and Mr. John Dailey (NextEra) returned with RR 451, addressing members concerns from pervious discussions. The group discussed their past concerns with the RR 451. Mrs. Choate and Mr. Dailey reviewed final language before seeking approval.

Joshua Verzal (OPPD) made a motion for the TWG to approve RR 451 - Pooled Surplus Interconnection Service. Noman Williams (GridLiance) seconded the motion. The motion passed with one opposition: Nate Morris (Empire) and two abstentions: Jarred Cooley (SPS) and Randy Lindstrom (NPPD).

AGENDA ITEM 5 - RR 452 - TRANSMISSION OWNER PROJECT EVALUATION

Mr. Charles Hendrix (SPP) reviewed the final draft of RR 452 - Transmission Owner Project Evaluation. RR 452 was previously presented a multiple TWG meetings throughout 2021 and 2022. Mr. Hendrix outlined the adjustments and addressed member's questions before seeking approval.

John Knofczynski (East River) made a motion for the TWG to approve RR 452 – Transmission Owner Project Evaluation. Andrew Berg (MRES) seconded the motion. The motion passed with one opposition: Noman Williams (GridLiance) and one abstention: Joshua Verzal (OPPD).

AGENDA ITEM 6 -2021 ITP FURTHER EVALUATION OF THE CROSSROADS-PHANTOM 345 KV PROJECT

Mr. Kirk Hall (SPP) provided an overview and scope of the 2021 ITP further evaluation of the Crossroads-Phantom 345 kV project. Mr. Hall discussed the specific scope items for the further evaluation and model updates. TWG members expressed concern over SPP staff not letting the sensitivity analysis delay the process. Lastly, Mr. Hall reviewed the schedule and addressed members' concerns before seeking approval.

Jarred Cooley (SPS) made a motion for the TWG to approve 2021 ITP Further Evaluation Scope document. Shane McMinn (GSEC) seconded the motion. The motion passed with one opposition: Nate Morris (Empire)

Mr. David Duhart (SPP) provided an overview of the 2021 ITP further evaluation base reliability (BR) powerflow models. Mr. Duhart discussed the specifics of the model updates being applied.

Shane McMinn (GSEC) made a motion for the TWG to approve 2021 ITP Further Evaluation BR powerflow models with the following conditions: Removal of the 80MW EOG Loads with final models posted once the change is made. Jarred Cooley (SPS) seconded the motion. The motion passed with one abstention: Nate Morris (Empire).

AGENDA ITEM 7 – 2022 TPL SCOPE CHANGE – SENSITIVITIES

Mr. Scott Jordan (SPP) presented the 2022 NERC TPL-001-5 Scope proposed updates. Mr. Jordan discussed the Revision of Sensitivity cases for the Steady-State portion of the TPL-001-5 Assessment. These revision were made to accommodate the previously approved changes related to the 2022 ITP rebaseline.

Matt McGee (AEP) made a motion for the TWG to approve 2022 TPL-001-5 Scope revisions. John Boshears (CUS) seconded the motion. The motion passed unanimously.

AGENDA ITEM 8 - 2023 ITP – GENERATOR OUTLET FACILITIES (GOFs)

Mr. Spencer Magby (SPP) provided an overview of the 2023 ITP GOFs milestone work to be performed. Mr. Magby discussed milestone deliverables, GOF development notes and provided a high-level schedule.

AGENDA ITEM 9 - ITP REBASELINE / MOPC ACTION ITEM (AI) 314

Ms. Sherri Maxey (SPP) presented an updated on the ITP Rebaseline effort, and provided an overview of staff's approach to address the MOPC AI 314. Ms. Maxey provided a high-level timeline for the ITP rebaseline, including the 2021 ITP Further Evaluation, the 2022 ITP reliability only assessment, the 2022 20-Year assessment, and the full 2023 and 2024 ITP assessments. Lastly, Ms. Maxey reviewed staff's approach to address the MOPC action item 314.

AGENDA ITEM 10 – SPONSORED UPGRADE 024 OGE 345-161 KV OKTAHA

Mr. Jason Speer (SPP) presented the sponsored upgrade 024 OGE 345-161 kV Oktaha. Mr. Speer provided details on the SPP-performed Sponsored Upgrade Study for Oklahoma Gas and Electric

Company (OG&E). Mr. Steve Hardebeck (OKGE) provided additional details regarding the sponsored upgrade.

Joshua Verzal (OPPD) made a motion for the TWG to endorse the Sponsored Upgrade Study 024 Oktaha 345/161 kV work and study report. Michael Wegner (ICT) seconded the motion. The motion passed unanimously.

AGENDA ITEM 11 – REMEDIAL ACTION SCHEME (RAS) APPLICATION CRITERIA

Mr. Adam Bell (SPP) presented a follow up on the RAS Criteria. Mr. Bell addressed comments from past meetings. Lastly, the group discussed language adjustments before seeking approval. Ultimately the group decided the policy paper should be moved into a formal revision request.

Arash Ghodsian (EDF) made a motion for the TWG to endorse the RAS Criteria document to be matriculated into a formal SPP Revision Request with the following conditions:

- **Further discussion on the 200 MW Threshold Screening Criteria**
- **Further consideration on additional approval criteria within the working group approval process**

Nathan McNeil (Midwest) seconded the motion. The motion passed unanimously.

AGENDA ITEM 12 – FERC ORDER 881

Mr. Zachary Sharp (SPP) provided an update on RR 490 regarding FERC Order 881. The group reviewed the RR language with comments and provided feedback. Several TWG members expressed concerns with the RR regarding the effective date, implications to TOs, and the process to finalize the RR in time that has been given by FERC. Staff took these comments and will address them throughout the RR process and comment period.

AGENDA ITEM 13 – DISIS DISPATCH / NRIS DISPATCH

Mr. Steve Purdy (SPP) presented on DISIS fuel-based dispatch. Mr. Purdy provided an overview on the current dispatch issue. The group reviewed SPP staff's proposal for new generation dispatch percentages. The item was discussed thoroughly by the group and many concerns were raised regarding the proposed dispatch percentages, multiple generators at the same point of interconnection, and the decision making process.

Arash Ghodsian (EDF) made a motion for the TWG to approve the adoption of a “fuel-based” dispatch, as revised in tables presented at the meeting, for analyzing current requests in GI studies commencing with DISIS-2017-002 Phase 2 and subsequent clusters with the following conditions:

- **The exception will be that prior-queued generators at an electrically equivalent POI will be dispatched as current-study requests**
- **The levels for specific fuel-types will be updated regularly with TWG approval**

Clifford Franklin (SEPC) seconded the motion. The motion passed with six in opposition: Jarred Cooley (SPS), Kalun Kelley (WFEC), Randy Lindstrom (NPPD), Nate Morris (Empire), Josh Verzal (OPPD), and Nathan McNeil (Midwest) and five abstentions: Steve Hardebeck (OKGE), Shane McMinn (GSEC), Michael Mueller (AECC), Jeremy Severson for Phil Westby (Basin Proxy), and Noman Williams (GridLiance)

Voting Rationale:

OPPD

OPPD supports the concept of a fuel based dispatch for use in the GI study process. However, OPPD could not support the motion due to it containing too low of a dispatch percentage for the prior queued wind in the summer and winter peak HVER dispatch scenario.

Midwest

Midwest Energy is supportive of SPP Staff’s recommendation to move to fuel-based dispatch in GI study processes. However, we believe the HVER models should include a minimum 50% dispatch of prior-queued wind generators in the Summer Peak and Winter Peak models.

WFEC

WFEC voted “NO” on the fuel-based dispatch motion #1 for the following reasons:

- No data was provided to show the impact of the changes from previous methodology (DISIS 2017-001, etc.). SPP did not demonstrate or rule out how the transfer of costs to load serving entities would be effected.

- WFEC believes a series of modeling runs showing results using different values would provide a better basis for making a decision rather than copying methodology from other entities or using previous methodology.

WFEC understands with these potential issues (such as masking reliability needs) artificially increasing PQ and Pgen to levels higher than historical values that coincide with the seasonal CP's used to build the ITP BR models. To further expand on WFEC's struggle:

- These renewable flows offset load (particularly WFEC's load). Therefore, if there are voltage issues or overloads, we should be seeing (at historically accurate renewable generation levels), they will be masked with the artificially higher levels of renewables (in our area, at least).
- This could potentially provide understated and/or inaccurate costs for interconnecting entity because of these masked issues. As a result, these potentially understated and/or inaccurate cost will be passed onto our Members to make up the differences through wholesale rates, with no benefit to the Members (i.e. cost shift).

As a result, WFEC recommends that DISIS Fuel-Based Dispatch numbers be fully optimized.

XCEL Energy / SPS

Xcel Energy/SPS voted NO in regards to the "GI Dispatch" discussion for multiple reasons:

- Xcel Energy/SPS believes that this is a policy change and requires MOPC oversight due to the likely cost shifts. SPP Leadership on the call (David Kelly) stated he did not see this as a policy change and will move forward with implementation ASAP. SPP staff identified that they want this change to be enacted in DISIS 2017-002 phase 2, which has a kick off meeting on March 15th.
- Xcel Energy/SPS believes that this change in dispatch will result in a cost shift from generation in the queue to load serving entities and create additional congestion in real-time.
- SPP staff did not bring any detailed analysis on the new values they were proposing as the "fuel based" dispatch except for pulling the average renewable dispatch by season. That does not tell members where is the break point in relation to the model solving issues so the discussion around raising that value to a higher value was based purely on SPP staff saying that they think it might work or might now work (i.e. – Midwest Energy proposed moving prior queue wind generation output from staff's proposed 20% to 60%. This was opposed by SPP staff but there was zero technical justification shared besides an opinion by SPP Staff that it might not work)

Lastly, Mr. Purdy discussed area interchange control for non-generator contingencies in the performance of GI studies.

Nathan McNeil (Midwest) made motion for TWG to Endorsed disabling “area interchange control” when analyzing non-generator contingencies in GI studies. Jeremy Severson for Phil Westby (Basin) seconded the motion. The motion passed unanimously.

AGENDA ITEM 14 – GI BACKLOG LARGE REACTOR DEVICE ADJUSTMENT APPROACH

Item not covered.

AGENDA ITEM 15 – TWG GOALS

Item not covered.

AGENDA ITEM 16 – 2022 TWG MEETING SCHEDULE

Mr. Adam Bell (SPP) provided a quick overview on upcoming meeting schedule.

AGENDA ITEM 17 – ACTION ITEMS, FUTURE MEETINGS, AND IMPORTANT DATES

Mr. Adam Bell (SPP) discussed the newly added action items noted earlier in the minutes and summary.

With no new business, Derek Brown, Evergy Companies, Inc. adjourned the meeting at 3:30 p.m. on March 1, 2022.

Respectfully submitted,

Adam Bell

Staff Secretary