



Southwest Power Pool
TRANSMISSION WORKING GROUP MEETING
December 13, 2017
Net Conference – Little Rock, AR

• Summary of Action Items •

1. Approved withdrawal of Kummer Ridge – Round up 345 kV line NTC

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• M I N U T E S •

Agenda Item 1 – Administrative Items

Call to Order

TWG Chair Travis Hyde called the meeting to order at 9:01 am. The following members were in attendance (Attachment 1a – Attendance).

Travis Hyde (Chair), Oklahoma Gas & Electric
Daniel Benedict, City of Independence
Scott Benson, Lincoln Electric System
John Fulton, Southwestern Public Service Company
James Ging, Kansas Power Pool
Kalun Kelley, Western Farmers Electric Cooperative
John Knofczynski, East River Electric Power Cooperative
Dan Lenihan, Omaha Public Power District
Randy Lindstrom, Nebraska Public Power District
Matt McGee, American Electric Power
Nathan McNeil, Midwest Energy Inc.
Nate Morris, Empire District Electric
Michael Mueller, Arkansas Electric Cooperative Corporation
Jason Shook, GDS Associates, Inc.
Matthew Stoltz, Basin Electric Power Cooperative
Harold Wyble, Kansas City Power & Light

Proxies

Kirk Hall, SPP staff, identified the following proxies (Attachment 1b – Proxies):

- Michael Wegner (ITC Great Plains) proxy for Alan Myers (ITC Great Plains)
- Josie Daggett (WAPA) proxy for Gayle Nansel (WAPA)
- Jerry Bradshaw (CUS) proxy for John Boshears (CUS)

Kirk informed the Chair of a quorum.

Agenda Item 2 – Kummer Ridge – Roundup 345 kV Re-evaluation

Jason Speer, SPP staff, discussed the re-evaluation of the Kummer Ridge – Roundup 345 kV line re-evaluation (Attachment 2 – Kummer Ridge – Roundup 345 kV Re-evaluation) and requested the TWG approve the withdrawal of the line. TWG members expressed no concerns with staff's recommendation.

Motion: Michael Wegner made a motion to accept staff's recommendation. John Fulton seconded the motion, which passed unanimously.

Agenda Item 3 – Ponderosa Tap NTC Modification

Jay Caspary, SPP staff, presented a NTC modification (Attachment 3 – Ponderosa Tap NTC Modification) for a project to build a Ponderosa Tap station. Jay informed the stakeholders that the NTC was



incorrectly assigned as a direct assigned projects and should have been assigned as Base Plan funded. TWG had no issues with the change.

Agenda Item 4 – 2017 TPL Assessment

Charles Hendrix, SPP staff, presented the draft version of SPP's 2017 TPL report (Attachment 4 – CAS December 13 Update). Charles asked for comments and reminded stakeholders that revisions to the report would be posted today in advance of the December 20th meeting where approval would be requested. Charles also briefly mentioned that SPP had completed the CIP-002-5 assessment and would be sending out notification of results to stakeholder soon.

Travis reminded the group of the joint portion of the ESWG meeting the following morning.

Respectfully Submitted,

Kirk Hall
Secretary

Southwest Power Pool, Inc.
TWG NET CONFERENCE
December 13, 2017
SPP Corporate Campus – Little Rock, AR

• A G E N D A •

9:00 am – 11:00 am

1. Administrative ItemsTravis Hyde (5 min.)
 - a. Call to Order
 - b. Proxies
2. Kummer Ridge – Roundup 345 kV Re-evaluation (Approval Item).....Jason Speer (15 min.)
3. Ponderosa Tap NTC Modification Harvey Scribner (10 min.)
4. 2017 TPL Assessment¹ Charles Hendrix (25 min.)
5. ~~2019 ITP Schedule Juliano Freitas (15 min.)~~

¹ Materials Posted to TrueShare or GlobalScape

All sessions in Central Standard Time (Chicago, GMT-06:00)

Session detail for 'TWG Net Conference':

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| 59 Brian Johnson | bajohnson1@aep.com |
| 60 Ellen Bailey (SPP) | ebailey@spp.org |

Kirk Hall

From: Myers, Alan
Sent: Wednesday, December 06, 2017 3:13 PM
To: Hyde, Travis; Kirk Hall
Cc: Wegner, Michael
Subject: FW: [EXT] **External Email** TWG 12/13/17 Agenda & Background Materials posted

Travis/Kirk:

I will be absent for the first half of next week's webex meeting. Michael Wegner will have my proxy.

Thanks,
Alan

From: bounce-60357-118444@spplist.spp.org [mailto:bounce-60357-118444@spplist.spp.org] **On Behalf Of** Audrey White
Sent: Wednesday, December 06, 2017 4:09 PM
To: Transmission Working Group <twg@spplist.spp.org>
Subject: [EXT] **External Email** TWG 12/13/17 Agenda & Background Materials posted

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Do not click on links from unknown senders.
Contact the ITC Helpdesk with any questions or concerns.

TWG 12/13/17 Agenda & Background Materials have been posted to the SPP website for your review at the link shown below:

[TWG Meeting Materials](#)

TPL reports will be posted on TrueShare or GlobalScape to download. A separate email will be sent with the locations once they are posted.

[TWG 12/13/17 Online Registration](#)

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Helping our members work together to keep the lights on...today and in the future

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Kirk Hall

From: Boshears, John
Sent: Monday, November 27, 2017 8:17 AM
To: Kirk Hall
Cc: Bradshaw, Jerry; Foflygen, Kevin; Knottek, Jeff
Subject: **External Email** TWG/ESWG JOINT MEETING 11-29-17

Kirk,
I have a doctors appointment on the 29th. I am going to give Jerry Bradshaw my proxy for that meeting. My surgery is scheduled for 12-4-17. I have been told I will be away from work for 2 weeks after that, therefore I will go ahead and give Jerry my proxy for any meetings or votes for that time period. Please be sure he is notified for any special meetings.
Thank you,

John Boshears
Eng III-Transmission Planning
O: 417.831.8512



PO Box 551 | Springfield, MO 65801-0551
cityutilities.net

Kirk Hall

From: Nansel, Gayle
Sent: Wednesday, December 06, 2017 9:45 AM
To: Kirk Hall
Cc: Josephine Daggett WAPA
Subject: **External Email** Dec 13 TWG Conf Call

Kirk:

Josie has my proxy for the Dec 13 TWG Conf Call.

Gayle R. Nansel | Transmission Planning Manager
Western Area Power Administration | Upper Great Plains Region
(O) 406.255.2830 | (M) 406.698.6714 | nansel@wapa.gov



Western Area Power Administration

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Please consider the planet before you print.

Kummer Ridge – Roundup Re- evaluation

Background

- Kummer Ridge – Roundup 345 kV has received Board approval for an expedited re-evaluation (April 2017)
 - MOPC approved re-evaluation scope (July 2017)
- 2018 ITPNT Non-BA Models finalized on October 10
 - TWG approval – October 17
- 2018 ITPNT BA Models finalized on November 3
 - TWG approval – November 15

Contingency Analysis

- **2018 ITPNT contingencies**
- **Monitoring:** Voltage and thermal limits will be compared with and without the Kummer Ridge-Roundup 345 kV project

Results

- **Reliability Analysis**
 - Finished the analysis outlined in the scope
 - The need for the Kummer Ridge – Roundup 345kV line did not appear in the analysis

Staff Recommendation

- Staff recommends to withdraw the NTC for the Kummer Ridge – Roundup 345kV line (NTC-C #200387, UID #51501)



HELPING OUR MEMBERS WORK TOGETHER
TO KEEP THE LIGHTS ON... TODAY AND IN THE FUTURE.

TWG
HPILS NTC Modification
Ponderosa Tap 115 kV

December 13, 2017

Modification of Cost Allocation to NTC 200282, PID 30694, UID 50879 Ponderosa Tap Substation (Custer Mtn)

- Background
- Schedule

Background

- On April 29, 2014 the Board approved the HPILS Report and directed issuance of NTCs & NTC-Cs as shown in Appendix C: HPILS Project List of the report.¹
- Ponderosa 115 kV Substation (NM)
 - NTC 200282, PID 30694, UID 50879
 - Tap the existing 115 kV line from Ochoa to Whitten to construct new 115 kV Ponderosa Tap substation. Install any necessary 115 kV terminal equipment
 - Direct Assigned costs (2017 Q4): \$4,941,253
 - Customer need date: June 1, 2018

¹ SPP Board Agenda & Background 4/29/14 material, HPILS Report, April 2, 2014, Appendix C, p. 144; for link to document see Appendix 6 of this report.

Background

- SPP Open Access Transmission Tariff, 31.2d Construction and Cost Recovery:
 - In the event that Network Upgrades are required pursuant to the study results of Attachment AQ to accommodate load at a delivery point, such Network Upgrades shall be deemed to be reliability upgrades in accordance with Section III of Attachment O and funded pursuant to the provisions of Section III of Attachment J.
- The funding for the NTC **Ponderosa 115 kV Substation** is incorrectly designated Direct Assigned and should be Base Plan Funded.
- SPP Open Access Transmission Tariff Business Practice 7060²

²<https://www.spp.org/documents/37750/spp%20oatt%20business%20practices%2020160412.pdf>, p. 99.

Schedule

- **TWG**

- Notification
- December 13, 2017 - presentation

- **MOPC**

- Notification
- January 16-17, 2018
- Skirvin Hilton, Oklahoma City, OK

- **Board of Directors**

- Endorsement
- January 30, 2018
- Skirvin Hilton, Oklahoma City, OK



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Compliance and Advanced Studies

TPL-001-4 Approval CIP-002-5 Notice

Transmission Working Group

December 20, 2017

Agenda

1. TPL-001-4/FAC-014-2 Approval
2. CIP-002-5 Notice

TPL-001-4 Assessment

1. TPL-001-4 Planning Assessment consists of three sub-parts.
 - a) Steady State
 - b) Stability
 - c) Short Circuit
2. TPL-001-4 Planning Assessment was completed in accordance with the study scope approved by the TWG.

TPL-001-4 Assessment

3. 2017 TPL-001-4 Planning Assessment includes all three sub-parts in the comprehensive assessment.
4. All potential violations of planning criteria were mitigated with Corrective Action Plans developed and tested by the Transmission Planners and Planning Coordinator.

FAC-014-2 Assessment

1. FAC-014-2 Assessment was performed to establish System Operating Limits (SOLs) and Interconnection Reliability Operating Limits (IROLs) in the Planning Horizon
2. SPP MDWG models set all facility SOLs as the facility ratings given in the models.
3. Results from the TPL-001-4 Planning Assessment were used to determine if any SOLs should be reduced from their model ratings.
4. Corrective Action Plans can be applied to mitigate any potential reduction in SOLs.

FAC-014-2 Assessment

5. In accordance with SPP Planning Criteria, potential IROs are to be investigated if a facility is found to be loaded greater than 120% of its SOL, or if a contingency results in three buses with less than 0.90 pu voltage.
6. IROs are to be established if it is found that the loss of the potential IRO facility results in additional facilities being loaded greater than 120% of their SOLs or an additional three buses experience post-contingent voltages less than 0.90 pu
7. Corrective Action Plans can be applied to mitigate potential IROs.

FAC-014-2 Assessment

8. In the TPL-001-4 Assessment, all potential SOL reductions and IROLs were mitigated with Corrective Action Plans.
9. The Planning Horizon SOL of any facility is its facility rating in the MDWG planning models.
10. No IROLs were identified.

IRO-017-1 Implications

- IRO-017-1 R4 requires coordination with the RC to develop joint solutions for issues identified associated with planned outages
- Outages associated with planned outages were denoted by SPP in the TPL-001-4 workbook and provided to the RC for joint solution development
- The PC and RC agreed upon the solutions provided to the TPs in the workbook.

Staff Recommendation

Approve the 2017 TPL-001-4 and FAC-014-2
Comprehensive Planning Assessment

CIP-002-5 Notice

1. Criterion 2.3 – Identify Generation Facilities that are required to avoid an Adverse Reliability Impact.
2. Criterion 2.6 – Identify generation or transmission that is critical to the derivation of Interconnection Criteria Operating Limits (IROLs)
3. SPP has performed the assessment and will provide notice to registered GOs, GOPs, TOs, and TOPs as appropriate.