



**Southwest Power Pool**  
**TRANSMISSION WORKING GROUP MEETING**  
**September 12, 2017**  
**Net Conference – Little Rock, AR**

**• Summary of Action Items •**

1. Approved no changes to the BA models for the 2018 ITPNT

**Southwest Power Pool**  
**TRANSMISSION WORKING GROUP MEETING**  
**September 12, 2017**  
**Net Conference – Little Rock, AR**

• 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 10:01 am. The following members were in attendance (Attachment 1a – Attendance).

Travis Hyde (Chair), Oklahoma Gas & Electric  
Daniel Benedict, City of Independence  
Dustin Betz, Nebraska Public Power District  
John Boshears, City Utilities of Springfield  
Alan Burbach, Lincoln Electric System  
Josie Daggett, Western Area Power Administration  
Calvin Daniels, Western Farmers Electric Cooperative  
John Fulton, Southwestern Public Service Company  
Jody Holland, South Central MCN  
John Knofczynski, East River Electric Power Cooperative  
Dan Lenihan, Omaha Public Power District  
Matt McGee, American Electric Power  
Nathan McNeil, Midwest Energy, Inc.  
Nate Morris, Empire District Electric  
Michael Mueller, Arkansas Electric Cooperative Corporation  
Kiet Nguyen, Grand River Dam Authority  
Jason Shook, GDS Associates, Inc.  
Matthew Stoltz, Basin Electric Power Cooperative  
Michael Wegner, ITC Great Plains  
Harold Wyble, Kansas City Power & Light

Kirk informed the Chair of a quorum.

Kirk identified the following proxies (Attachment 1b – Proxies):

- Michael Wegner (ITC Great Plains) proxy for Alan Myers
- Josie Daggett (WAPA) proxy for Gayle Nansel (WAPA)
- Kiet Nguyen (GRDA) proxy for Joe Fultz (GRDA)
- Dustin Betz (NPPD) proxy for Randy Lindstrom (NPPD)
- Calvin Daniels (WFEC) proxy for Kalun Kelley (WFEC)
- Jody Holland (SC MCN) proxy for Noman Williams (SC MCN)
- Alan Burbach (LES) proxy for Scott Benson (LES)

**Agenda Item 2 – 2018 ITPNT Discussion**

2018 ITPNT BA Model Update

Kelsey Allen, SPP staff, opened the discussion (Attachment 2 – 2018 ITPNT BA Models) by informing the TWG of the identified issue with the previously approved SPP Balancing Authority cases. The TWG and staff discussed how the error was identified and the impact it had on the approved set of BA models. Staff proposed several options to the group and identified the impacts of selecting each option. The TWG

debated the merits of each option and most stakeholders seemed in favor of limiting the impact to the DPP window and the current 2018 ITPNT schedule. Dan Lenihan, OPPD, voiced his concerns over the model dispatch, the possibility of masking valid or posting invalid needs, and the use of models not representative of an economic dispatch and unit commitment in other study processes. Multiple members spoke up during the meeting in agreement that Option 1 or 2 are the most favorable. The TWG also agreed that if Option 2 is approved and the previously approved BA models continue to be used in the study, any projects deemed necessary due to needs resulting from only the BA models should receive additional scrutiny prior to the recommendation of an NTC.

**Motion: Nate Morris made a motion to approve the use Option 2, which would keep the BA models as is, for the 2018 ITPNT. John Fulton seconded the motion. The motion passed with 1 'No' vote from Dan Lenihan.**

After the meeting Dan Lenihan provided the following reasoning for his No vote:

*These BA models do not represent a true SPP Balancing Authority dispatch as described in the 2018 ITPNT scope. TARA is not capable of performing a true Security Constrained Unit Commitment (SCUC). This presents the issue of numerous peaking plants being on at Pmin, when in reality they would be off. This could ultimately lead to the masking of transmission system issues or the identification of invalid needs, depending on the situation. While we understand schedule and monetary impacts, OPPD feels that the accuracy of the models is critical since they will also be used in upcoming LOLE, Deliverability, Attachment AQ and Sponsored Upgrade study processes, in addition to the 2018 ITPNT.*

#### 2018 ITPNT Window Update

Jason Speer, SPP staff, informed the members the 2018 ITPNT DPP Window was currently on schedule and expected to open at 12:00 am on September 19. Jason also requested feedback from the TWG on whether or not staff should post all violations that were observed during the needs assessment including information on violations staff is considering as valid needs, invalid needs or mitigated needs. This would allow stakeholders participating in the DPP window the ability to compare their results with what staff has posted in the Needs Assessment and understand why staff does not consider some violations as valid needs. The TWG had no concerns with staff's suggestion.

Seeing there was no further business, the meeting was adjourned at 11:03 am.

Respectfully Submitted,

Kirk Hall  
Secretary

All sessions in Central Daylight Time (Chicago, GMT-05:00)

Session detail for 'TWG Net Conference':

Participant Name	Email
1 Michael Mueller	michael.mueller@aecc.com
2 Ellen Bailey (SPP)	ebailey@spp.org
3 Aaron Stewart (SPP)	astewart@spp.org
4 Kiet Nguyen	kiet.nguyen@grda.com
5 John Turner (BPU)	jturner@bpu.com
6 matthew stoltz	mstoltz@bepc.com
7 Moses Rotich	mrotich@spp.org
8 Jeremy Severson (BEPC)	jseverson@bepc.com
9 Derek Brown	derek.brown@westarenergy.com
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51 Jason Mazigian	jmazigian@bepc.com
52 John Boshears (SPRM)	john.boshears@cityutilities.net
53 Nate Morris (EDE)	nmorris@empiredistrict.com
54 Michael Odom (SPP)	modom@spp.org

## Kirk Hall

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**From:** Nansel, Gayle  
**Sent:** Tuesday, September 12, 2017 9:43 AM  
**To:** Kirk Hall  
**Cc:** Josephine Daggett WAPA  
**Subject:** \*\*External Email\*\* 9-12 TWG Meeting

I may have already done this but Josie Daggett will have my proxy for tomorrow's TWG 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](mailto:nansel@wapa.gov)



Western Area Power Administration

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## Kirk Hall

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**From:** Myers, Alan  
**Sent:** Tuesday, September 12, 2017 9:05 AM  
**To:** Kirk Hall; Hyde, Travis  
**Cc:** Wegner, Michael  
**Subject:** \*\*External Email\*\* FW: [EXT] TWG 9/12/17 Agenda & Background Materials posted

Kirk/Travis:

Michael Wegner will have my proxy for this morning's TWG call.

Thanks,  
Alan

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**From:** Audrey White [mailto:[awhite@spp.org](mailto:awhite@spp.org)]  
**Sent:** Monday, September 11, 2017 6:01 PM  
**To:** SPP TWG (EXPLODER) <[twg@spplist.spp.org](mailto:twg@spplist.spp.org)>; SPP TWG (Members Only) <[SPPTWG@spp.org](mailto:SPPTWG@spp.org)>  
**Subject:** [EXT] TWG 9/12/17 Agenda & Background Materials posted

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Audrey White | Administrative Assistant | [awhite@spp.org](mailto:awhite@spp.org) | 501-688-2531 (O) | 501-350-1158 (C)  
201 Worthen Drive | Little Rock, AR 72223-4936  
**Southwest Power Pool** | [SPP.org](http://SPP.org) | [twitter.com/SPPorg](https://twitter.com/SPPorg) | [facebook.com/SouthwestPowerPool](https://facebook.com/SouthwestPowerPool)  
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## Kirk Hall

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**From:** Fultz, Joe  
**Sent:** Tuesday, September 12, 2017 8:40 AM  
**To:** Kirk Hall; 'Thyde@oge.com'  
**Cc:** Nguyen, Kiet  
**Subject:** \*\*External Email\*\* TWG Proxy for Tuesday morning 9-12-17

Kiet Nguyen will have my proxy for today's call.

Thanks.

*Joe Fultz*

GRDA Engineering Operations  
(918) 824-7884



## Kirk Hall

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**From:** Lindstrom, Randy  
**Sent:** Tuesday, September 12, 2017 8:28 AM  
**To:** Kirk Hall; Hyde, Travis  
**Cc:** Betz, Dustin  
**Subject:** \*\*External Email\*\* TWG Proxy

As noted on the Doodle Poll, I will not be available for the TWG Conference Call on 9/12, due to the SPP GIITF Meeting.

I give my voting proxy to Dustin Betz, who will represent NPPD during today's call.

### Randy R. Lindstrom

Transmission Planning Supervisor  
Transmission Compliance & Planning  
Nebraska Public Power District Operations  
Office: 402-563-5240

## Kirk Hall

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**From:** Kelley, Kalun  
**Sent:** Tuesday, September 12, 2017 7:22 AM  
**To:** Kirk Hall  
**Cc:** Daniels, Calvin  
**Subject:** \*\*External Email\*\* Re: TWG 9/12/17 Agenda & Background Materials posted

Kirk,

I will need to give my proxy, for today, to Calvin Daniels.

Thanks,  
Kalun

On Sep 11, 2017, at 5:01 PM, Audrey White <[awhite@spp.org](mailto:awhite@spp.org)> wrote:

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## Kirk Hall

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**From:** Williams, Noman  
**Sent:** Monday, September 11, 2017 6:29 PM  
**To:** Kirk Hall  
**Cc:** Holland, Jody; Eric Burkey  
**Subject:** \*\*External Email\*\* FW: TWG 9/12/17 Agenda & Background Materials posted

Kirk I will be engaged at the NERC PC meeting during the call tomorrow and will provide my proxy to Jody Holland

### *Noman Williams*

Senior Vice President Engineering & Operations, COO  
South Central MCN, LLC  
Midcontinent MCN, LLC  
Mid-Atlantic MCN, LLC  
Phone: 816-492-2014  
Cell: 785-259-5110  
201 E John Carpenter Fwy  
Suite 900  
Irving, TX 75062  
[Nwilliams@gridliance.com](mailto:Nwilliams@gridliance.com)

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## Kirk Hall

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**From:** Benson, Scott  
**Sent:** Thursday, September 07, 2017 4:22 PM  
**To:** Kirk Hall  
**Cc:** Burbach, Alan  
**Subject:** \*\*External Email\*\* FW: Transmission Working Group 9/12/17 Net Conference Meeting Registration

Kirk,

I have a conflict at this time, so please accept Alan Burbach as my proxy for the 9/12 call.

Thanks,

Scott J. Benson, P.E. | Manager, Resource & Transmission Planning  
Lincoln Electric System  
Phone: 402-473-3390  
Fax: 402-473-3208  
Email: [sbenson@les.com](mailto:sbenson@les.com)  
1040 O St.  
PO Box 80869  
Lincoln, NE 68501-0869  
[www.les.com](http://www.les.com)

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**From:** Audrey White [mailto:[awhite@spp.org](mailto:awhite@spp.org)]  
**Sent:** Wednesday, September 6, 2017 2:08 PM  
**To:** SPP TWG (EXPLODER) <[twg@spplist.spp.org](mailto:twg@spplist.spp.org)>; SPP TWG (Members Only) <[SPPTWG@spp.org](mailto:SPPTWG@spp.org)>  
**Subject:** Transmission Working Group 9/12/17 Net Conference Meeting Registration

**Transmission Working Group 9/12/17 Net Conference meeting registration:**

**TIME:** September 12, 2017 10:00AM - 11:00AM

[TWG 9/12/17 Online Registration](#)

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# 2018 ITPNT BA Models

SPP staff

# Background

- The Consolidated Balancing Authority (CBA) model ITPNT inclusion was approved by TWG on 12/19/12
- TARA's SCED does not perform a ground up dispatch
  - SCED with unit commitment based on Scenario 0 dispatch in the current ITPNT BA model building process
  - Expensive units may remain online after SCED
- Stakeholder originally raised the concern on 07/19/17 that multiple Combustion Turbines (CT) were dispatched at minimum
  - Final 2018 ITPNT BA models were approved by TWG on 8/2/17
  - Stakeholder raised concerns again at August 15<sup>th</sup> TWG
- Discussed an approach to address lack of SCUC with certain stakeholders 9/7

# Options for the 2018 ITPNT

1. Remove BA models from the 2018 ITPNT scope
  1. No schedule impact
  2. Historically, few projects have been driven by BA only needs (also included coupling criteria in the past)
2. Keep approved BA models as is
  1. No schedule impact
  2. Incorrect unit commitment
3. Rebuild BA models using TARA with updated process approach (see subsequent slides)
  1. Schedule/cost impact
  2. Not a true SCUC
4. Rebuild BA models using ITP10 process (PROMOD)
  1. Vetted process with SCUC/SCED
  2. Not feasible without pushing study completion date



# BA Model Update Approach

- Retired Sibley unit turned off
- Turn off high cost generation committed in scenario 0
  - Target peaking units dispatched to min and generation with  $P_{MAX} < 20\text{MW}$ 
    - Focus by machine type CT, IC, non-coal ST
  - Exclude units greater than 250 MW
  - Exclude area slack machines
- Re-perform constraint assessment

# BA Model Update Impacts

Task	Dates	Time
Model Re-build	9/6 - 9/15	1.5 weeks
TWG Review/Approval*	9/18 - 9/22	1 week
Needs Assessment	9/25 - 10/13	3 weeks
2 <sup>nd</sup> DPP Window	10/16 – 11/15	30 days
DPP Validation/Screening	11/16 – 12/15	4 weeks

\*Any constraint/model adjustments requiring an update would need to be completed during this week

- **Cost to get back on schedule by mid-December: ~\$240K**

# Recommendation

- Staff recommends implementing Option 3

# Motion

- Approve the use of Option 2 in the 2018 ITPNT