

Southwest Power Pool, Inc.
HOLISTIC INTEGRATED TARIFF TEAM
SPP Holistic Integrated Tariff Team Meeting
Dallas, TX
July 9, 2018
• M E E T I N G M I N U T E S •

1. Call to Order and Administrative Items

Chair Tom Kent (NPPD) called the meeting to order at 9:00 am.

Meeting minutes from the June 8 HITT meeting were approved as drafted. (Dennis Grennan (NPRB) made the motion to approve; Richard Ross (AEP) seconded and the motion passed unanimously).

2. Welcome & Introductions

Kent stated that this meeting would hopefully conclude the staff education and in the following meetings on July 31 and August 1 he would like the group to move into stakeholder presentations related to planning.

3. HITT Carry over Requests for Information

- a. Wind Data (RFI 18 & 21)
- b. Market/Operational Data (RFI 14, 15, 17 & 24)

Gary Cate (SPP) provided requested information from 3a and 3b regarding generation capacity and production by the various fuel types and some additional detailed information on the gas units in SPP. He also shared information related to zonal wind penetration, wind dispatch and curtailments and the differences between load forecast and wind forecasts including summary accuracy results.

- c. GI Data (RFI 7 & 9)

Antoine Lucas (SPP) provided an update on NRIS-only vs. ERIS costs assigned in the latest 3 GI cluster studies dating back into 2015. The information provided showed that the ERIS costs were far in excess of the NRIS-only costs. Lucas also provided statistics on the current GI queue related to executed and pending interconnection agreements that showed the number of requests for wind versus the total number of requests.

- d. FERC Orders 841, 844 & 845 (RFI 19 & 44)

Tessie Kentner (SPP) provided updates on these three FERC Orders:

- i. Order 841 – Storage Participation in Markets is currently being addressed in the Market Working Group and should have compliance filing language ready for the MOPC and SPP BOD in October 2018. FERC Compliance filing is due by December 3, 2018 for a schedule December 3, 2019 implementation date.
- ii. Order 844 – Uplift Cost Allocation and Transparency in Markets will have compliance language (RR310) coming to the MOPC and SPP BOD in July 2018 for the filing that is due by September 7, 2018 to FERC. Implementation is

required 120 days from the compliance filing. This Order will require the creation of public reports based on existing data that was previously not published.

- iii. Order 845 – GI Reforms is currently being addressed by the Generation Interconnection Improvement Task Force. Compliance filing is due November 5, 2018 and language will be ready for the October 2018 MOPC and SPP BOD.

4. **HITT Issue 1A related Requests for Information**

a. **ERIS/NRIS Continued “The Life Cycle”(RFI 8, 42 & 43)**

- i. ERIS/NRIS GI Stats
Lucas provided this information as part 3c GI Data above.
- ii. Upgrade cost comparisons ERIS/NRIS
Lucas provided this information as part 3c GI Data above.
- iii. Market distinctions ERIS/NRIS (no separate market rules)
- iv. Congestion impacts (past experiences ERIS vs NRIS generator usage)
CJ Brown (SPP) addressed iii. and iv., stating that from an operational perspective the MW input into the system are not looked at as NRIS or ERIS. There is not distinction made between the two.
- v. Future transmission upgrade impacts and cost allocation
Was not discussed at this meeting.

b. **Relationship between GI and ITP (RFI 39)**

Lucas provided a brief overview of the relationship between the GI planning process and ITP planning process. The greatest impact is the utilization of the GI requests based on status in the creation of the ITP future resource and siting plans. Lucas also noted that there is no distinction between ERIS and NRIS status in the ITP.

c. **TCR/TSR Disconnect (RFI 34)**

Richard Dillon (SPP) presented the different hedging instruments available for the load to offset congestion charges and allocation mechanisms for the congestion rents. Dillon explained process for acquiring TCRs and ARRs and ultimately how those are settled. Stakeholder concerns with the ARR/TCR process was discussed.

d. **AQ (RFI 11)**

Lucas discussed the AQ planning process used for customers requesting additional delivery points onto the SPP system. Lucas noted that there has been a significant increase in the AQ requests over the past three years.

5. **Cost Implications & Responsibilities under Requested Tariff Studies (RFI 29 & 41)**

Due to time constraints this item was not covered.

6. **Next Educational Topics**

Chair Kent stated would be scheduling stakeholder presentations related to planning at the next meeting on July 31-August 1. Would then like further develop issue statements and begin solution development for Issue 1A Planning.

7. Review / Update of the RFI list and parking lot items

July 9th RFIs					
Data & FERC Orders					
46	Gas Generator Resource Breakdown	2	How much of the Gas Generators are Quick Start?	CJ Brown/Gary	
47	Wind Forecasting	2	Statistical spread on wind forecasting errors.	CJ Brown/Gary	
48	Wind Data	2	More specific data on wind. How often wind is zero, by %s, zone and RTO footprint. Detailed analysis on the data/breakdown.	CJ Brown/Gary	
49	Order 845	2	Can an electric storage facility request only to be a transmission solution not a generator?	Tessie Kentner	
50	Order 844 Data	2	When can SPP provide the data required under Order 844 to the HITT?	Tessie Kentner	
Hedging/Congestions					
51	Hedge challenges	2	When and how are hedges (ARRs, TCRs) not providing the hedge to have no impact in FTR holders?	SPP Staff	
52	Planning vs Market Issues	1(a) & 2	Customer issues: Hedge problems (ERIS Causing congestions), Z2, ERIS generators causing ITP upgrades)	Antoine Lucas/CJ Brown	
ERIS/NRIS related issues					
53	Economic DVER Curtailment data	2	Where are the curtailments? Further breakdown of data by location. Breakdown by manual curtailment, economic signals, etc. Also a look at how much self-commitment was on line when curtailment/economic signals were impacting wind.	Gary Cate/CJ Brown	
54	ERIS/NRIS Data	1A	Data on number of requests are duel (both ERIS/NRIS). Issue is timing delays costs, etc. Bill Grant issue. GIITF.	Antoine Lucas	
55	ERIS/NRIS	1A	What are other regions/RTOs doing about ERIS/NRIS?	Completed by Al Tamimi	
56	ERIS Study Parameter	1A	Mike Wise/Richard Ross/Mike Risan questions about studies. Issues with % vs MW overload, generators in the models vs. generators not in the models?	Antoine Lucas	
57	Planning Models	1A	How much generation is not in certain models? Which models, type of generation, etc. Chart listing by study model?	Antoine Lucas	

58	NRIS/ERIS/Firm Service	1A	History about NRIS/ERIS/Firm. Data on the numbers for each type of service in the SPP footprint.	Antoine Lucas	
59	ERIS causing reliability upgrades in ITP Planning Process	1A	Staff analysis on ERIS resources causing reliability upgrades in ITP reliability planning processes.	Antoine Lucas	
60	History of ERIS & ERIS	1A	Provide a memo on the History of ERIS and NRIS.	Tessie Kentner	

8. Other Items

9. Next Meetings

2018 HITT Team Meetings

- July 31, 2018 - Omaha, NE
- August 1, 2018 - Omaha, NE
- August 21, 2018 - Dallas, TX
- August 22, 2018 - Dallas, TX
- September 5, 2018 - Dallas, TX
- November 6, 2018 - Dallas, TX
- December 5, 2018 - TBD

10. Adjournment

The meeting was adjourned at 2:53PM.



HITT Team Members Participating

Tom Kent, Chair (NPPD)
Rob Janssen (Dogwood Energy)
Shari Albrecht (KCC)
Dennis Grennan (NPRB)
Jim Eckelberger (SPP Director)
Graham Edwards (SPP Director)
Denise Buffington (Evergy)
Holly Carias (NextEra)
Dennis Florum (LES) – On Phone
Bill Grant (Xcel SPS)
Richard Ross (AEP)
Al Tamimi (Sunflower) – On Phone
Greg McAuley (OGE)
Mike Risan (BEPC)
Brett Leopold (ITC)
Mike Wise (GSEC)
Cindy Ireland (APSC) – CAWG Liaison

SPP Staff Attendance

Paul Suskie, Staff Secretary
Antoine Lucas
Gary Cate
Don Shipley
Tessie Kentner
Luke Hill
Ben Bright
CJ Brown
Richard Dillon
Charles Locke

HITT Meeting Participants

Aaron Doll (EDE/Liberty)
Alan Myers (ITC)
Bernie Liu (Xcel Energy)
Betsy Beck (AWEA)
Bill Leung (NPRB)
Blaine Erhardt (BEPC)
Brian Johnson (AEP)
Brian Rounds (AESL)
Calvin Daniels (WFEC)
Carrie Dixon (Xcel)
Chris Cranford (SPP)
Clifford Franklin (Westar)
David Mindham (ITC)
Dennis Reed (Midwest Reg Consulting)
Don Frerking (KCP&L Westar)
Ella Caillouette (Northwestern)
Greg Garst (OPPD)
Greg Sorenson (SPP MMU)
Heather Starnes (MJMEUC/KMEA)
J.P. Maddock (BEPC)
James Hotovy (NPPD)
Jason Mazigian (BEPC)
Jason Shook (GDS/ETEC)
Jeff Knottek (CUS)
Jeremy Severson (BEPC)
Jim Jacoby (AEP)
Jim Krajecki (Customized Energy Solutions)
Joe Taylor (SPS)
Joel Dagerman (NPPD)
John Boshears (CUS)
John O'Dell (SPP)
John Stephens (SPRM)
John Tennyson (SPRM)
John Varnell (TNSK)
Jon Sunneberg NPPD
Kenny Hale (SPRM)
Maurice Moss (City Utilities)
Meena Thomas
Michael Moffet (SEPC)
Mike Rein (XCEL Energy)
Mo Awad (Evergy)
Natasha Henderson (GSEC)
Pat Hayes (LS Power)
Paul Malone (NPPD)
Rajaraman (TEA)
Ray Bergmeier (SEPC)
Robert Pick (NPPD)
Robert Safuto (Customized Energy Solutions)
Robert Tallman (OG&E)
Ron Chartier (SEPC)
Ron Thompson (NPPD)
Ron Thompson (NPPD)
Scott Bents (IUB)
Steve Gaw Wind Coalition)
Terri Gallup (AEP)
Tim Hall (Southern Power)
Tom Hestermann (SEPC)
Tom Kleckner (RTO Insider)
Vince Vandaveer (SPRM)