Approved: March 15, 2010

Date

MINUTES OF THE SENATE UTILITIES COMMITTEE

The meeting was called to order by Chairman Pat Apple at 1:30 p.m. on March 8, 2010, in Room 548-S of the Capitol.

All members were present.

Committee staff present:

Kristen Kellems, Office of the Revisor of Statutes Matt Sterling, Office of the Revisor of Statutes Raney Gilliland, Kansas Legislative Research Department Cindy Lash, Kansas Legislative Research Department Ann McMorris, Committee Assistant Jeannine Wallace, Sen. Apple's Office Assistant

Conferees appearing before the Committee: Heather Starnes, Southwest Power Pool, Little Rock, Arkansas

Others attending: See attached list.

Approval of Minutes

Moved by Senator Taddiken, seconded by Senator Petersen, the minutes of the meetings of the Senate Utilities Committee held on February 17, February 23, February 24, and February 25, 2010 be approved. Motion carried.

Presentation on Southwest Power Pool

Heather Starnes of Southwest Power Pool, provided details of SPP expansion planning and cost allocations. By use of a power point presentation, maps and charts pictured the areas in which Kansas was involved and the connection with other states. She discussed integrated transmission planning and priority projects. Cost allocation, risks and avoided costs and other opportunities were featured. (Attachment 1)

Committee asked questions regarding pending legislation, FERC timelines, comparison with other Power Pools and wind transmission.

The next meeting is scheduled for March 9, 2010.

The meeting was adjourned at 2:25 p.m..

Respectfully submitted,

Ann McMorris Committee Assistant

Attachments - 1



SENATE UTILITIES COMMITTEE GUEST LIST MARCH 8, 2010

NAME	REPRESENTING	
Dinatisk	VERIZON WIRELESS	
JUAITH GAAD	NERTERA ENERGY	
MEL MINOR	11 17	
Mark Schneden	Westar	
Kimberly Svaky	ITCGP	
Nelson Knieger	Par Electica	
Fing Gardener	ATXT	
TOMDAY	KEC	
Ashley Ballweg	Pinegar, Smith #Asso	
Clare & Buslin	Sunflower Electric	
MubiReacht	Atmos	
Jackson Londsay	Him Low	
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Senate Utilities Committee March 8, 2010 Attachment 1-1



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

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Expansion Planning and Cost Allocations

SPP Mission

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

William Str. Same

SOUTHWEST POWER POOL

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Our Beginning

- Founded 1941 with 11 members
 - Utilities pooled resources to keep Arkansas aluminum plant powered for critical defense
- Maintained after WWII for
 reliability and coordination

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SPP.org



SOUTHWEST POWER POOL

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SPP at a Glance

- Incorporated in Arkansas as a 501(c)(6) non-profit corporation
- FERC Federal Energy Regulatory Commission

SPP.org

- Regulated public utility
- Regional Transmission Organization
- NERC North American Electric Reliability Corporation
 - > Founding member
- Regional Entity



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Southwest Power Pool





Southwest Power Pool

SPP.org

Our Major Services

- and the second se
- Facilitation
- Reliability Coordination Re
- - Tariff Administration
 - Market Operation
 - Standards Setting
 - Compliance Enforcement
- Transmission Planning

Regional Independent

- Cost-Effective
 - Focus on Reliability

Key Elements of Services











SOUTHWEST POWER POOL

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Planned Transmission over last 3 years

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e.

2009 STEP	2008 STEP	2007 STEP	Upgrade Type	
\$540	\$320	\$290	Transmission Service Request and Generation Interconnection Service	
\$2,110	\$880	\$720	Reliability - Base Plan	
\$660	\$800	\$640	Reliability - Other	
\$320	\$620	\$460	Sponsored Upgrades	
\$770			Balanced Portfolio	
\$60	\$60	\$90	Interregional Coordinated Upgrades	
\$4.46B	\$2.7B	\$2.2B	Appendix A - TOTAL	

Has filed Service Agreement or is BOD-approved

SPP.ORG



What is Integrated Transmission Planning?

- Goal: Design transmission backbone to connect load to the most reasonable generation alternatives
 - > Strengthen ties to Eastern and Western Interconnections
 - > Improve connections between SPP's east and west regions
- Horizons: 20, 10, and 4 year
- Focus: Regional, integrated with local
- Resulting in: Comprehensive list of needed projects for SPP region over next 20 years
 - ➢ With 40 year financial/economic analysis
- Underlying Value: Reliability and Economics are inseparable

POWER POOL

Priority Projects

- Near-term opportunities while transitioning to Integrated Transmission Planning process
- "Readily apparent" projects that continue to appear in current planning processes
- Relieve grid congestion
- Improve access to transmission service
- Improve transfers between SPP's east and west regions
- Economic projects up to 765 kV; across SPP region

POWER





SPP.org

"Transmission Superhighway"

- Facilitate addition of renewable energy to grid
- Improve reliability by reducing chance of high-cost outages

SOUTHWEST POWER POOL

- Improve access to lower-cost generation and diverse mix of generation
- Create economic opportunities beyond electric industry



Regional State Committee – Key to SPP's Success

All the second second

- Retail regulatory commissioners Arkansas,
- Kansas, Missouri, Nebraska, New Mexico, Oklahoma, Texas

Louisiana maintains active observer status

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Functions

- Cost allocation in the second seco
 - Ensure adequate supply
 - > Market cost/benefit analyses



SOUTHWEST POWER POOL

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<i>Type</i>	Reliability	Economic
Purpose	Keep lights on	Reduce congestion with benefit/cost ≥ 1
Also Called	Base Plan Funding	Balanced Portfolio
Funded By	Region - 33% Impacted zone- 67%	Shared regionally (postage stamp)
Voltage	All	345 kV+
Implemented	2005	2009



- High-voltage "highway" funded with regional rate
- Lower-voltage "byway" funded with local rate

Voltage	Regional	Zonal
300 kV and above	100%	0%
100 kV - 299 kV	1/3	2/3
Below 100 kV	0%	100%

Risks and Avoided Costs

 Hard to overbuild EHV transmission that is a product of regional planning - Relative to cost and potential stranded investment of underbuilding

WFST

- Avoided costs can be significant
- To avoid corridor fatigue where Rights of Ways are or will become a major issue, planners must consider:

Land use impacts

> Wildlife fragmentation, etc.



SOUTHWEST POWER POOL

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SPP and other Regional Plans

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Other Opportunities In Process

- Merchant activities in/around SPP are noteworthy and may need to be part of long range plans
- While transmission projects are making headlines, all these proposed HVDC projects require robust EHV networks

SOUTHWEST POWER POOL

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Wind Integration Task Force (WITF) Study

SOUTH

WEST

- SPP initiated operational, not economic, analysis to assess impacts of 10, 20 and 40% wind integration levels
- Studies focused on 10 and 20% cases, with transmission expansion based on reliability needs

 Significant transmission expansion required to support 10 and 20% cases with both 345 kV and 765 kV lines in several key corridors, including Woodward District EHV - Comanche

Pool

POWER









Conclusion

 Wind Integration Task Force, Priority Projects and Integrated Transmission Planning are likely to conclude the need for major EHV transmission capability between Woodward District EHV in OK and Comanche in KS

Southwest

POWER

➢ e.g. 345 and 765 kV lines in that critical corridor

- SPP planning decisions on timing and size of corridors and EHV lines will first require support
- and approvals regarding cost allocation
- Transmission Owners are responsible for details regarding line routes, permitting, etc.

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Southwest Power Poor

- SPP studies show the need for significant transmission capability between EHV substations at Woodward District EHV in OK and Comanche in KS not considering wind plant collector or integration facilities
- Decisions regarding the timing and scope for those facilities will be forthcoming, but uncertainty about cost allocation must be resolved first

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 Line routes and permitting are responsibility of Transmission Owners in SPP



Heather Starnes Manager, Regulatory Policy 501.614.3380 <u>hstarnes@spp.org</u>