



SPP *Southwestern
Power Pool*

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



SPP's Draft Attachment O

October 2, 2007
FERC Technical Conference
Atlanta



Overview

- **Recent Developments**
- **Highlights of Draft Posted 9/14**
- **Steps to Finalize Attachment O**
- **SPP Initiatives**
- **Opportunities for Future Planning**



SPP Steps to Create DRAFT Att. O

- **Reviewed White Paper**
- **Gap Analysis**
- **Revised Strawman**
- **Net Conference 9/5**
- **Draft Tariff Language**
 - Intent was to preserve existing tariff language, and expand based on 9/5 Strawman
 - Shared draft language with stakeholders to address any major concerns
 - Posted draft 9/14



Highlights of DRAFT Posted 9/14

Transparency on local planning will be facilitated by SPP in conjunction with quarterly TWG meetings

Obligation/right to build to be addressed by TOCTF

Work in progress to finalize/approve business practice for dispute resolutions and planning manuals



Steps to Finalize Attachment O

Stakeholder reviews / input

- **RTWG Agenda Item at 9/27**
- **TWG Conference Calls 10/2, 10/9, 10/23**
- **2 RTWG Conference Calls TBD**
- **MOPC Meeting 10/16-17**
- **RTWG Meeting 10/25**
- **MOPC and BOD approvals in November**

Hot link to submit comments on SPP website and homepage

Develop/Review/Finalize/Approve Business Practice for Dispute Resolution in Att. O

Review/Revise/Finalize/Approve reference manuals for reliability assessments and economic planning

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SITESHARCH

- About SPP
- Org Groups
- Regional Entity
- Engineering & Planning
- Market Info
- Training
- Contract Services



EMAILSIGNUP

SPPCALENDAR

« Oct 2007 »

S	M	T	W	T	F	S
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

OPERATINGREGION



[learn more >](#)

Southwest Power Pool

SPP is a Regional Transmission Organization, mandated by the Federal Energy Regulatory Commission to ensure reliable supplies of power, adequate transmission infrastructure, and competitive wholesale prices of electricity. As a Regional Entity, SPP oversees compliance enforcement and reliability standards development. SPP has members in 8 Southwestern states. Read more about [What We Do](#) or download [SPP Fast Facts](#).

 **EMPLOYMENT FIND A JOB AT SPP**

SPP Publishes Draft Response To FERC Order 890 Compliance {9/14/2007}

SPP has issued a draft of Attachment O in response to FERC's Order 890 Compliance request. Download the draft or submit comments to SPP.

 **MEMBER & CUSTOMER SUPPORT**

SPP Regional Entity To Host Compliance Workshop {9/11/2007}

On October 10 - 11 the SPP Regional Entity will host the Fall 2007 SPP Regional Entity Compliance Workshop in Tulsa, OK. Participants will be brought up-to-date on this year's Compliance Monitoring and Enforcement Program. [learn about functional](#)

 **SPP DOCUMENTS & FILINGS**

- COMINGSOON**
- Here's a quick look at SPP's upcoming events.
- Market Working Group Meeting
 - Oversight Committee (formerly Compliance Committee)
 - Special SPP Board of Directors/Members Committee Meeting and Meeting of Members
 - Transmission Ownership/Construction Task Force
 - Finance Committee Meeting



SPP Initiatives

Revised/new seams agreements being discussed with neighboring entities

- **AECI (TCA executed in 2004)**
- **Entergy**
- **Nebraska**
- **CLECO**
- **Others**

Fair and simple cost allocations are critical for benefits of major grid expansion to result



Eastern Interconnection Reliability Assessment Group

- **SPP has been a vocal supporter of interconnection wide modeling standards to facilitate long range planning studies**
- **ERAG Management Committee has replaced the NERC PC with regards to MMWG oversight, has approved the acquisition of a load flow modeling database under Powertech Labs which is CIM compliant to make model building and maintenance more efficient going forward**

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Collaborative Planning Within SPP

SPP RTO and ICT Planners work diligently to coordinate future planning for both reliability and economic projects

Boundaries conditions need not be problematic

ICT representing RTO in SERC reliability assessments, as well as other planning processes

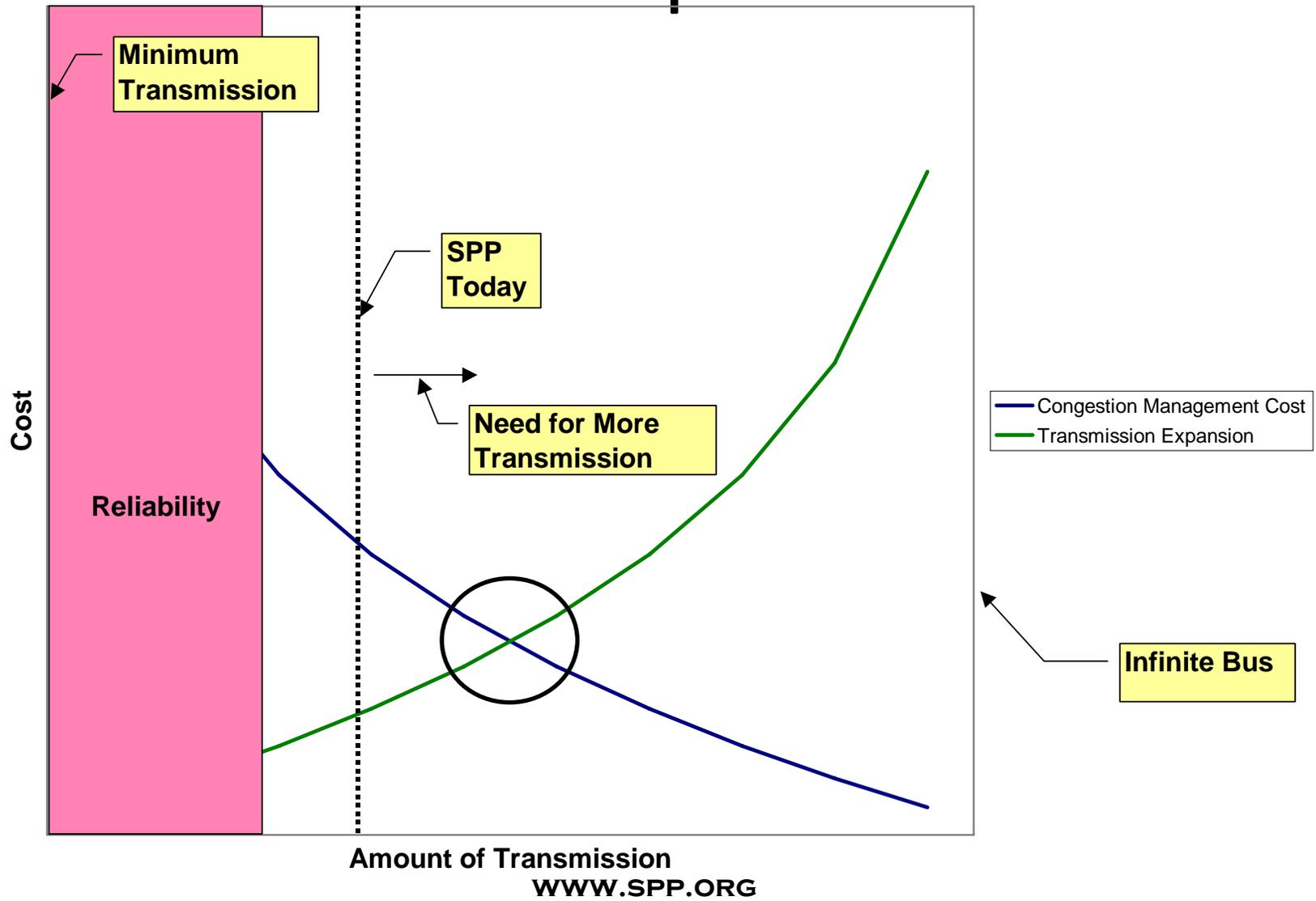
RTO representing ICT in joint common study scoping, model building, analyses, etc.



MISO / SPP Joint Reliability Study

- **Part of Joint Operating Agreement**
- **In process**
- **Must verify there are no seams issues with regards to reliability standards**

Transmission Expansion



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SPP Studies

SPP Staff and stakeholders have completed several major studies to support coordinated and collaborative, long-range, inter-regional and intra-regional transmission expansion plans

- **Competitive Renewable Energy Zones in TX**
- **Kansas Electric Transmission Authority in KS**
- **OZARKS in Southwest MO and Northwest AR**
 - **SPP Staff is encouraged by statements by SWPA of willingness to evaluate possible upgrades of existing facilities from 161 to 500 kV**

SPP is working with MISO, PJM and TVA to create a common joint study. The hope is that this collaborative reliability and economic analysis will compliment a major wind integration study for the Eastern Interconnection sponsored by DOE and NREL which will not only focus on expansion planning, but also operational impacts with significant wind development. Kickoff meeting with stakeholders in Chicago November 1st



SPP Transmission Expansion Plan

2007 STEP being finalized

- **Focus at August 15 Regional Planning Summit was 100 kV + 69 kV subregional plans being shared next week**
- **Western half of X Plan (345 kV) deferred until 2020 based on n-1 planning and significant enhancements internal to SPS**
- **Numerous opportunities identified based on Economic Upgrade screens**

Reflects Ozarks Study recommendations

- **Decatur – E Centerton – Osage Creek 345 kV in AR**
 1. **E Centerton 345/161 kV in 2010**
 2. **Osage Creek 345/161 kV in 2015**
- **Brookline – Summit 345 kV in MO**
 - **Summit 345/161 kV in 2013**



Market Congestion in SPP

SPP monitors EIS market activity and performs analyses on congestion

Bulk EHV Study in 2000-2001 targeted solutions for flowgates

Attachment AA provided an opportunity for customers to sponsor upgrades for nuisance limits on flowgates without committing to firm transmission service

Potential economic upgrades and their impact on problematic flowgates has been identified and reported in STEP

Engineering staff is just starting to evaluate EIS congestion data and work with Market Development staff on best ways to incorporate market congestion data into planning processes



Convergences are Exciting

- **SPP with support of BOD & RSC are looking at postage stamp rates for economic expansion at 345 kV+ in SPP**
- **Transmission Ownership / Construction Task Force**
- **Unprecedented support from states to facilitate renewable energy development and focus on opportunities to improve grid efficiencies and enhanced regional planning, e.g., KETA, OEPTTF**
- **FERC Order 890**
- **2008 Eastern Interconnection Wind Integration Study sponsored by DOE with NREL involving SPP, MISO, PJM, TVA and potentially others to identify long range transmission expansion needs to accommodate large wind development and deliveries in the Eastern Interconnection, in addition to the associated impacts on grid operations**

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Cost Allocations for Economic EHV

- **Cost Allocation Working Group, under Regional State Committee, evaluating cost allocation alternatives to support development of economic portfolio of projects in SPP**
- **Focus on “balancing” benefits**
- **Consensus seems to support postage stamp economically beneficial 345 kV+ projects, although some debate over integration facilities (on/off ramps)**



Recent EHV Commitments are Remarkable

Westar building Wichita – Reno Co – Summit 345 kV

SPP BOD approved waiver for Rose Hill – Sooner 345 kV with subsequent Westar and OG&E commitment to build as directed by SPP. Preliminary line routing looked at both 345 kV and 765 kV alternatives.

ITC Great Plains letter July 16th to build Spearville – Comanche Co – Wichita 345 and/or 765 kV as directed by SPP. Westar has indicated interest in this project.

KETA announcement July 25th and subsequent ITC Great Plains letter to build Spearville – Knoll – Axtell 345 kV tie to Nebraska. Meeting with parties held September 13th in Omaha.



Recent EHV Commitments are Remarkable (cont.)

OG&E letter August 10th to build the western half of the X Plan into the Texas Panhandle, at 345 – 765 kV design as directed by SPP

ITC Great Plains letter August 14th to build Comanche – Mooreland – Northwest 345 and/or 765 kV

ITC Panhandle Texas letter August 14th to build Mooreland – Texas Panhandle 345 and/or 765 kV

AEP letter August 22nd indicates interest in building all 500 and 765 kV EHV overlay in SPP subject to socialized cost recovery for facilities



EHV Overlay Next Steps

- **Stakeholders to share strategic plans (Ongoing)**
- **Stakeholders rank pending federal initiatives, e.g., RPS (survey in development, completed Nov 15)**
- **Conclude EHV conceptual designs (Dec)**
- **Perform benefits analysis of designs (Jan)**
- **Conduct state-by-state road shows (Feb-Apr)**
- **Seams Agreements for cost allocations (Oct – Apr)**



Major Economic Upgrades to BOD

- **BOD directs construction of Economic Upgrades**
- **Staff has completed analyses and determined no adverse impacts for the follow major out-of-cycle projects which will be presented at October BOD meeting:**
 - **Spearville – Comanche – Wichita 345 or 765 kV**
 - **Spearville – Knoll – Axtell 345 kV tie to NE**



Future Opportunities

NERC LTRAs, Joint MISO/PJM/SPP/TVA Study, 2008 Eastern Interconnection Wind Integration Study and 2009 DOE Congestion Study will provide excellent opportunities to perform effective inter-regional and interconnection wide planning

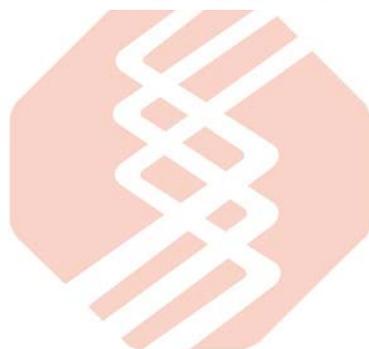
Demonstration of the value of bulk network transmission will only be limited by the lack of collaborative planning, non-existent/ineffective seams agreements and associated fair cost allocation mechanisms

Questions?





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