

**Southwest Power Pool**  
**JOINT TWG/ESWG MEETING**  
**July 3, 2013**  
**Web Conference – Little Rock, AR**

**• Summary of Action Items •**

1. TWG and ESWG approved including the High Priority Incremental Load Study loads and NTCs in the base case ITP10 models.
2. TWG approved using 3 futures as part of the 2015 ITP10.
3. TWG approved including all HVDC ties and lines with an executed Transmission-Transmission Interconnection Agreement on both ends and modeling only confirmed transmission service in the base case.
4. TWG approved the AQITF Business Practice

**Southwest Power Pool**  
**JOINT TWG/ESWG MEETING**  
**July 3, 2013**  
**Web Conference – Little Rock, AR**

• M I N U T E S •

**Agenda Item 1 – Administrative Items**

TWG Chair Noman Williams called the meeting to order at 8:02 a.m. The following TWG members were in attendance (Attachment 1a – Attendance) or represented by proxy (Attachment 1b – Proxies):

Mo Awad, Westar Energy, Inc.  
Scott Benson, Lincoln Electric System  
John Boshears, City Utilities of Springfield  
John Fulton, Southwestern Public Service Company  
Joe Fultz, Grand River Dam Authority  
Travis Hyde, Oklahoma Gas & Electric  
Randy Lindstrom, Nebraska Public Power District  
Jim McAvoy, Oklahoma Municipal Power Authority  
Matt McGee, American Electric Power  
Nathan McNeil, Midwest Energy  
Nate Morris, Empire District Electric  
Michael Mueller, Arkansas Electric Cooperative Corporation  
Alan Myers, ITC Great Plains  
John Payne, Kansas Electric Power Cooperative  
Jason Shook, GDS Associates representing ETEC  
Aaron Smith, proxy for Dan Lenihan representing Omaha Public Power District  
Tim Smith, Western Farmers Electric Cooperative  
Mike Swearingen, Tri-County Electric Cooperative, Inc.  
Noman Williams, Sunflower Electric Power Corporation  
Brian Wilson, proxy for Harold Wyble, Kansas City Power & Light

The following ESWG members were in attendance or represented by proxy:

Randy Collier, City Utilities of Springfield  
Kip Fox, American Electric Power  
Leon Howell, Oklahoma Gas & Electric  
Alan Myers, ITC Great Plains  
Kurt Stradley, Lincoln Electric System  
Mike Swearingen, Tri-County Electric Cooperative, Inc.  
Greg Sweet, Empire District Electric  
Bruce Walkup, Arkansas Electric Cooperative Corporation  
Michael Watt, Oklahoma Municipal Power Authority  
Bennie Weeks, Southwestern Public Service Company

The following stakeholders and staff were also in attendance:

Jonathan Abebe, Clean Line Energy Partners, LLC  
Kelsey Allen, SPP Staff  
Jason Atwood, Ventyx  
Ted Bell, SPP Staff

Bryce Bowie, SPP Staff  
Roy Boyer, Southwestern Public Service Company  
Jerry Bradshaw, City Utilities of Springfield  
David Charles, Basin Electric Power Cooperative  
Elizabeth Coffield, SPP Staff  
Tom DeBaun, Kansas Corporation Commission  
Olu Fagbemi, Burns and McDonnell  
Juliano Freitas, SPP Staff  
Cary Frizzell, SPP Staff  
Steve Gaw  
Noumvi Ghomsi, Missouri Public Service Commission  
Tony Gott, Associated Electric Cooperative, Inc.  
Amber Greb, SPP Staff  
Kirk Hall, SPP Staff  
Jody Holland, SPP Staff  
Barry Huddleston, Clean Line Energy Partners, LLC  
Jon Iverson, Omaha Public Power District  
Don Le, Lone Star Transmission, LLC  
William Leung, Nebraska Power Review Board  
Antoine Lucas, SPP Staff  
Bob Lux, SPP Staff  
Chris Matthes, American Electric Power  
Clayton Mayfield, SPP Staff  
Pat McCool, Kansas City Power & Light  
Rosemary Mittal, SPP Staff  
Gimod Olapurayil, ITC Great Plains  
Tim Owens, Nebraska Public Power District  
Dona Parks, Grand River Dam Authority  
Debbie Prater, Oklahoma Corporation Commission  
Katherine Prewitt, SPP Staff  
Mike Proctor, Liaison to SPP RSC  
Scott Rainbolt, American Electric Power  
Ronda Redden, Oklahoma Gas & Electric  
Jeff Rooker, SPP RE  
Moses Rotich, SPP Staff  
Robert Safuto, Customized Energy Solutions, LTD  
James Sanderson, Kansas Corporation Commission  
David Sargent, Southwestern Power Administration  
Anita Sharma, American Electric Power Oklahoma Transmission Company, Inc.  
Jon Shipman, Omaha Public Power District  
Todd Tadych, Duke America Transmission Company, LLC  
Keith Tynes, GDS Associates representing ETEC  
Alex Watkins, SPP Staff  
Kyle Watson, Entergy Services, Inc.  
Patrick Wilkins, Tres Amigas  
Mitchell Williams, Western Farmers Electric Cooperative

Kirk Hall, SPP staff, noted there was a quorum for the TWG to conduct business, and Juliano Freitas, SPP staff, also stated the ESWG had obtained a quorum.

### **Agenda Item 2 – 2015 ITP10 Futures and Assumptions**

Jody Holland, SPP staff, gave a presentation (Attachment 2 – 2015 ITP10 Scope Discussion) to the stakeholders discussing the key concepts staff needs approval on to continue work on the 2015 ITP10

Assessment. The presentation highlighted three key items: High Priority Incremental Load Study (HPILS) loads and NTC modeling, Futures, and inclusion of HVDC ties and lines. Both TWG and ESWG members discussed each of the key items in detail before making a motion on each concept.

### **HPILS Load and NTC Modeling**

Jody Holland raised the question to stakeholders regarding including the loads and NTCs that may result from the HPILS in the base case. Jody mentioned 4 possibilities related to including the HPILS loads and NTCs. Jody noted that the loads being proposed in the 2015 ITP10 would be the 50/50 probability found in the HPILS. Members then discussed the problems with including these incremental loads. Some members voiced concern over the uncertainty of the loads being analyzed in the HPILS and viewed the uncertainty of the loads as a concern also regarding including any NTCs issued from the study. The timing of the loads was also an uncertainty that concerned some members. Those opposed to including the HPILS inputs suggested a sensitivity to include the HPILS loads and NTCs. Staff stated that the results of inclusion of HPILS in the base case and assessing HPILS as a sensitivity would most likely yield different results. John Payne, KEPCo, stated that his apprehension resulted from not seeing the large amounts of load growth and the uncertainty that it existed. John Fulton, SPS, stated that he is seeing a backlog of oil and gas loads that are asking for service and that he cannot connect the loads quickly enough. Mike Swearingen, Tri-County Electric Cooperative, and Mitch Williams, Western Farmers, stated they are seeing similar situations to John Fulton. Members concerned over the inclusion of HPILS loads and NTCs agreed that their concerns would decrease if they received confirmation that the HPILS loads would be applied to the 2014 series of MDWG models. John Fulton also explained to the group that they have studied uncertainties as part of the ITP assessments in the past. High wind futures studied in the ITP10 and ITP20 assessments were also uncertain, but there were projects driven from those assumptions with some uncertainty involved.

**Alan Myers made a motion for the TWG to approve the staff recommendation to include the HPILS loads and NTCs in the base case of the 2015 ITP10. John Fulton seconded the motion. The motion passed with 13 for, 3 against, and 1 abstention with 17 of 19 voting members present.**

**Nate Morris voted against the motion due to the following:**

**The results of the HPILS study are total unknowns, including these types of speculative loads/results seems to counter previous and present planning efforts, NTC's to be issued for projects that are weighted towards near-term in-service dates will most likely be unable to be recalled due to the pressing timeline inherent to these types of loads, and the types of loads to be considered will most likely not have equal concentration at the 10 yr horizon. Empire as well as other members voiced support for conducting the HPILS study apart from the ITP10, reviewing the initial results, and then making the determination of whether such results should be included in the ITP10.**

**Mo Awad abstained during the vote for the following reasons:**

- 1. The oil load is exploratory in nature and is being handled separately in the HPILS study.**
- 2. We will be issuing NTCs for load that may or may not be in-service by the time the study is completed.**
- 3. It is more appropriate to let the HPILS handle the additional load outside the scope of ITP10.**
- 4. It is too early to approve the inclusion when HPILS is still in preliminary stages. Westar would rather wait until the study is complete to decide on inclusion in the ITP10.**

**Kip Fox made a motion for the ESWG to approve the staff recommendation to include the HPILS loads and NTCs in the base case of the 2015 ITP10. Kurt Stradley seconded the**

motion. The motion passed with 6 for, 3 against, and 0 abstentions with 9 of 11 voting members present.

Randy Collier voted no for the following reason:

City Utilities of Springfield votes no on approval of the ITP10 scope. City Utilities has a concern about incorporating the High Priority Incremental Load Study (HPILS) into the ITP10 scope at this time. There are many unknowns about HPILS at this time and City Utilities is not comfortable agreeing to incorporate HPILS into the ITP10 scope until more data (results) from the HPILS process is available. City Utilities believes that special study results should be evaluated independently, rather than forced into the existing planning processes.

Leon Howell voted no for the following reason:

The HPILS will use the load forecast high load scenario that assumes a 90/10 weather event as a proxy for petroleum sector load growth. Since there is no correlation between a high weather event and petroleum sector load, using the HPILS load for the ITP10 will misrepresent the amount of load given a 50/50 weather event. OG&E includes the expected load growth from the petroleum sector in its load forecast. Including the higher load due to weather as a proxy for additional petroleum load in the ITP10 is potentially overstating or double counting petroleum load since the expected petroleum load is already included in the load forecast.

### Futures

Antoine Lucas, SPP staff, spoke about the 2<sup>nd</sup> concept which is based on the number of futures in the 2015 ITP10. Antoine stated that ESWG had previously supported and approved 3 futures as part of the 2015 ITP10, but the ESWG did realize that there could be a viewpoint that Future 2 and Future 3 could yield similar result. He also noted staff currently had budgeted resources for only 2 futures and the additional cost for analysis of a 3<sup>rd</sup> future had been estimated by staff to be between \$625k. Mo Awad asked for an explanation between Future 2 and Future 3. ESWG Chair Alan Myers, ITC Great Plains explained the difference between Future 2, which is a decrease in base load capacity, while Future 3 is meant identify projects that benefit the footprint based on an increase of input prices. Randy Lindstrom, NPPD, asked the ESWG member why these futures are the correct futures. Kip Fox, AEP, noted the different possibilities that may affect base load in Future 2 such as restricted water or low hydro or additional EPA regulations. Kip also noted that much of the transmission upgrades approved lately have been to allow gas generation to hit the market and an increase in gas prices such as that in Future 3 would affect it as well. John Fulton also spoke up regarding the viability of Future 3 due to regulation on extraction methods for gas as well as global market influence on gas exports raising the cost.

**Randy Lindstrom made a motion to endorse the three futures as described by the ESWG with a 50% weighting for projects identified in Future 1 in the final portfolio. Jason Shook seconded the motion. The motion passed unanimously.**

According to the scheduled meeting the joint call was scheduled to end at 10:00 a.m. However, both the ESWG and TWG agreed to extend the call to continue working through the 2015 ITP10 concepts.

### HVDC Ties and Lines

Jody Holland discussed previous conversation between staff and stakeholders on the inclusion of Tres Amigas HVDC tie and the Clean Line HVDC transmission lines in the base case of the 2015 ITP10. Jody asked the group for additional opinions on whether to include these projects in the base case model. As an update to the members, Barry Huddleston, Clean Line, provided information on the progress of the transmission-transmission interconnection agreements for Plains & Eastern. Clean Line expects to have an executed interconnection agreement for its Plains & Eastern HVDC line with SPP by September 2013 and an interconnection agreement with TVA by 2<sup>nd</sup> quarter of 2014. Members then discussed the merits

of including the Plains & Eastern line. Members agreed that Tres Amigas should be included due to its executed interconnection agreements with WECC and SPP. John Fulton also asked staff to explain how modeling confirmed transmission service across HVDC ties is consistent with the new Integrated Marketplace. Jody explained that modeling confirmed transmission service is how previous ITP studies and the EIS market treat HVDC ties and is the expected method for the upcoming Integrated Marketplace. Staff is still researching how the Integrated Market will handle the HVDC ties to confirm.

**Travis Hyde made a motion to approve the staff recommendation which states that the 2015 ITP10 base case model will include HVDC ties and lines with an executed transmission-transmission interconnection agreement (both sides) and flow across HVDC ties and lines will include only confirmed transmission service. Jim McAvoy seconded the motion, which passed unopposed.**

At 10:37 a.m. the ESWG/TWG joint meeting ended to allow the TWG to continue discussing TWG matters.

### **Agenda Item 3 – AQITF Proposed Business Practice**

Jim McAvoy, OMPA, presented the progress of the AQITF (Attachment 3a – SPP AQITF Update) to the TWG and outlined the new AQ Business Practice (Attachment 3b – Delivery Point Addition Business Practice) for the TWG to review and approve. Members made some small language clarifications to the business practice and expressed their appreciation to members of the task force as well as staff for the improvements designed into the business practice.

**Mo Awad made a motion to accept the business practice as amended during the meeting subject to final approval by TWG once other working groups have reviewed and approved. Mike Swearingen seconded the motion which passed unopposed.**

Noman asked that the task force remain intact until all necessary approvals to the business practice and new tariff language have been approved.

### **Agenda Item 4 – BPR-035 Revision**

Cary Frizzell, SPP staff, reviewed with the group one modification that had been made to BPR-035 (Attachment 4 – BPR-035) and asked the TWG if there were any concerns with the modification. TWG expressed there were no concerns with the modification.

Seeing no other business the meeting was adjourned at 11:05 a.m.

Respectfully Submitted,

Rachel Hulett  
Secretary



**Southwest Power Pool, Inc.  
JOINT TWG/ESWG WEB CONFERENCE**

**July 3, 2013**

**Conference Call**

**• A G E N D A •**

8:30-10:00 a.m.

- 1. 2015 ITP10 Futures and Assumptions ..... Staff (90 min)

Call will continue from 10:00 a.m. to 11:00 a.m. with the ESWG signing off

**TRANSMISSION WORKING GROUP**

10:00 a.m. – 11:00 a.m.

- 1. AQITF Proposed Business Practice (Action Item) ..... Jim McAvoy/Jody Holland (45 min)
- 2. BPR-035 Revision ..... Staff (5 min)

*Relationship-Based • Member-Driven • Independence Through Diversity  
Evolutionary vs. Revolutionary • Reliability & Economics Inseparable*

<b>TWG Net Conference</b>	<b>7/3/2013</b>			
<b>Company</b>	<b>Last Name</b>	<b>First Name</b>	<b>Email</b>	<b>Comments</b>
Clean Line Energy	Abebe	Jonathan	jabebe@cleanlineenergy.com	
Southwest Power Pool	Allen	Kelsey	kallen@spp.org	
Ventyx	Atwood	Jason	jason.atwood@abb.ventyx.com	
Southwest Power Pool	Bell	Ted	tbell@spp.org	
Lincoln Electric System	Benson	Scott	sbenson@les.com	
Southwest Power Pool	Bowie	Bryce	bbowie@spp.org	
Xcel Energy	Boyer	Roy	roy.d.boyer@xcelenergy.com	
City Utilities of Springfield	Bradshaw	Jerry	jerry.bradshaw@cityutilities.net	
Basin Electric Power Cooperative	Charles	David	dcharles@bepc.com	
Southwest Power Pool	Coffield	Elizabeth	lcoffield@spp.org	
Kansas Corporation Commission	DeBaun	Tom	t.debaun@kcc.ks.gov	
Burns & McDonnell	Fagbemiro	Oluwabusola	ofagbemiro@burnsmcd.com	
Southwest Power Pool	Freitas	Juliano	jfreitas@spp.org	
Southwest Power Pool	Frizzell	Cary	cfrizzell@spp.org	
	Gaw	Steve	RSGaw1@gmail.com	
	Ghoms	Noumvi	noumvi.ghoms@psc.mo.gov	
Associated Electric Cooperative, Inc.	Gott	Tony	tgott@aeci.org	
Southwest Power Pool	Greb	Amber	agreb@spp.org	
Southwest Power Pool	Hall	Kirk	khall@spp.org	
Clean Line Energy	Huddleston	Barry	bhuddleston@cleanlineenergy.com	
Omaha Public Power District	Iverson	Jon	jiverson@oppd.com	
Lone Star Transmission, LLC	le	don	don.le@lonestar-transmission.com	
Nebraska Power Review Board	Leung	William	bleung@bjleung.com	
Southwest Power Pool	Lux	Robert	blux@spp.org	
American Electric Power	Matthes	Chris	camatthes@aep.com	
Kansas City Power & Light Company	McCool	Pat	patrick.mccool@kcpl.com	
Southwest Power Pool	Mittal	Rosemary	rmittal@spp.org	
ITC Great Plains, LLC	Olapurayil	Gimod	golapurayil@Itctransco.com	
Nebraska Public Power District	Owens	Tim	tjowens@nppd.com	
Grand River Dam Authority	Parks	Dona	dparks@grda.com	

Kansas Electric Power Cooperative, Inc.	Payne	John	jpayne@kepco.org	
Oklahoma Corporation Commission	Prater	Debbie	d.prater@occemail.com	
Southwest Power Pool	Prewitt	Katherine	kprewitt@spp.org	
	Proctor	Mike	mproctor910@sbcglobal.net	
American Electric Power	Rainbolt	Scott	skrainbolt@aep.com	
Southwest Power Pool	Rooker	Jeff	jrooker.re@spp.org	
Customized Energy Solutions, LTD	Safuto	Robert	rsafuto@ces-ltd.com	
Kansas Corporation Commission	Sanderson	James	j.sanderson@kcc.ks.gov	
Southwestern Power Administration	Sargent	David	dave.sargent@swpa.gov	
SOUTHWEST POWER POOL	SHANK	CAITLIN	cxs0613@spp.org	
AEP Oklahoma Transmission Company, Inc.	Sharma	Anita	asharma@aep.com	
Omaha Public Power District	Shipman	Jon	jeshipman@oppd.com	
Duke-American Transmission Company, LLC	Tadych	Todd	ttadych@atcllc.com	
East Texas Electric Cooperative, Inc.	Tynes	Keith	keith.tynes@gdsassociates.com	
Entergy Services, Inc.	Watson	Kyle	kwatso2@entergy.com	
	Wilkins	Patrick	pwilkins@tresamigasllc.com	
Western Farmers Electric Cooperative	Williams	Mitchell	m_williams@wfec.com	

**From:** Wyble Harold  
**Sent:** Friday, June 28, 2013 2:33 PM  
**To:** 'Rachel Hulett'; 'Williams, Noman'  
**Cc:** Wilson Brian  
**Subject:** FW: TWG 7/3/13 Net Conference

Brian Wilson will have my proxy for this TWG meeting next week.

Harold Wyble  
Manager Transmission Planning  
Kansas City Power & Light  
816-654-1213

---

**From:** [bounce-37761-22439@spplist.spp.org](mailto:bounce-37761-22439@spplist.spp.org) [<mailto:bounce-37761-22439@spplist.spp.org>] **On Behalf Of** Shaun Scott  
**Sent:** Wednesday, June 26, 2013 4:20 PM  
**To:** Transmission Working Group  
**Subject:** TWG 7/3/13 Net Conference

TWG 7/3/13 Net Conference from 8:30 to 11:00 a.m. Online registration is available at the SPP Website provided below. There will not be any additional meeting materials posted as this meeting is a continuation of the meeting that took place today.

[TWG July Net Conference](#)

---

-----Original Message-----

**From:** LENIHAN, DANIEL J  
**Sent:** Wednesday, July 03, 2013 7:18 AM  
**To:** Noman Williams; Rachel Hulett  
**Cc:** SMITH, AARON T  
**Subject:** TWG MEETING PROXY

Noman, Rachel,

Aaron Smith will be my proxy for the TWG meeting today.

Thanks,  
Dan Lenihan

Sent from my iPhone

-----

# ITP10 Scope Discussion



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

# ITP10 Issues – Discussion Points

- **HPILS loads & NTC modeling**
- **Futures**
- **HVDC ties and lines**
- **Renewable Mandates, Goals, & Other**
- **Additional key scope items**

# HPILS Loads and NTC Modeling

- **Base Case Modeling Assumptions**
  - No HPILS loads, no NTCs
  - No HPILS loads, include NTCs
  - Include HPILS loads, no NTCs
  - Include HPILS loads and NTCs
- **Load forecast assumes 50/50**
- **Staff Recommendation**
  - Include HPILS loads and NTCs

# Futures

- **ESWG supports 3 futures**
  - **Business As Usual**
  - **Decreased Base Load Capacity**
  - **Increase Input Prices**
- **TWG vote needed**
- **Staff budgeted for 2 futures**
  - **Additional future cost ≈ \$625k**

# HVDC Ties and Lines

- **Base Case modeling assumptions**
  - No Tres Amigas or P&E
  - Include Tres Amigas, no P&E
  - Include both Tres Amigas and P&E
- **Flow across DC ties**
  - Confirmed service
  - Market to Market flow
- **Staff's Recommendation**
  - Include HVDC ties and lines with a signed T-to-T IA (both ends)
  - Model confirmed transmission service

# Renewable Mandates, Goals, and Other

- Plan for renewable Mandates, Goals, and Other
- Plan for renewable Mandates only

- Staff Recommendation
  - Plan for renewables Mandates, Goals, and Other

# Additional Key Scope Items

- **Members expressed displeasure with approving portions of the scope**
- **Other expressed concerns**
  - **Weighting**
  - **Consolidation of projects by futures**
  - **Staging**
  - **Load Pocket Analysis**
  - **Constraints**
- **Staff Recommendation**
  - **Approve futures and data inputs**



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

# SPP AQITF Update

June 26, 2013

Jim McAvoy OMPA  
AQITF Chairman



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

# Task Force Goals

- **Review Attachment AQ process**
- **Determine improvements in the AQ process**
- **Develop business practice**
- **Seek other SPP working groups approval**
- **Work with RTWG on tariff language**

# Accomplishments

- **Flowcharted load addition process to reduce/eliminate duplication of studies between the TO and SPP**
- **Identified load additions and/or facility changes that do not require the AQ process**
- **Developed business practice**

# Next Steps

- **Seek approval of business practice by TWG, RTWG, BPWG**
- **Present business practice to MOPC.**
- **Work with RTWG on tariff language.**

### **Delivery Point Addition Draft Business Practice**

For purposes of this business practice, Host Transmission Owner is defined as the owner of that portion of the Transmission System to which such connection or modification is to be made and Transmission Customer is defined as the TC requesting the establishment or modification of a delivery point. Any capitalized terms not defined herein, shall have the meaning set forth in the SPP Tariff. The process outlined in Attachment AQ facilitates a Host Transmission Owner obtaining a Notification to Construct (“NTC”) outside the normal Integrated Transmission Planning (“ITP”) processes in Attachment O of the SPP Tariff, if the Host Transmission Owner determines that a NTC may be necessary for the addition of a delivery point to the Host Transmission Owner’s transmission system. Please refer to the Attachment AQ process flowchart attached to this Business Practice as Appendix 1.

A request to establish or change a delivery point must be made in writing to the Host Transmission Owner and/or SPP. Depending on the timing of a request and the need date for the load, a request may be included in the ITP process, which includes forecasted load.

The following changes/modifications do not need to be included in the Attachment AQ process:

1. Any new or modified loads captured in the ITP process;
2. Any capacity changes at the delivery point without a corresponding change to the load at the delivery point;
3. Any Distribution Transformer changes without a corresponding load change; or
4. Modification to a delivery point facility rating, for example breaker replacement, bus or line termination equipment including protection equipment.

The Host Transmission Owner shall determine whether the request can be included in the SPP Integrated Transmission Planning (“ITP”) processes within 10 business days of receiving the request from the Transmission Customer or in agreed upon timeframe.

If the Host Transmission Owner determines that the request can be included in the ITP processes, the delivery point and necessary transmission facilities would then be migrated into the SPP planning models (TOs input data into Model on Demand tool) which then feeds into the annual Attachment O reliability planning processes. SPP will update any corresponding Network Integration Transmission Service Agreements (“NITSA”), as required.

If the request involves a Network Resource change or a transfer of a delivery point, the request should be included in the SPP Aggregate Transmission Service Study process (Attachment Z2) and/or Delivery Point Transfer Screening Study process (Attachment AR), as applicable.

#### **Attachment AQ Process**

If the request cannot be included in the ITP process, Aggregate Transmission Service Study or Delivery Point Transfer Screening Study, then the request should be processed through the Attachment AQ process.

Upon notification of the request from Transmission Customer and receipt of application, SPP shall assign an AQ request number and post the request to the queue on the SPP website within 10 business days.

The Host Transmission Owner will perform a screening study within 30 calendar days of receiving the request and determine whether a Load Connection Study (LCS) is required. Host Transmission Owner and Transmission Customer may discuss with SPP as needed.

If a LCS is not required, Host Transmission Owner shall notify Transmission Customer and SPP within 10 business days of the completion of the screening study. Email is sufficient for the notification of the completion of the screening study. The delivery point and any necessary interconnection or sponsored facilities are then added to the SPP planning models (Transmission Owners input data into Model on Demand tool) which then feeds into the annual Attachment O reliability planning processes. At this point, the Transmission Owner and Transmission Customer can reach an agreement with regard to funding and construction of the facilities. SPP will update any corresponding NITSAs, as required.

If the Host Transmission Owner determines that a LCS is required, the Host Transmission Owner shall tender the LCS Agreement to the Transmission Customer within 10 ~~business days of receiving the request~~. A deposit to the Host Transmission Owner may be required for the LCS.

The Transmission Customer must execute the LCS Agreement and provide the deposit, if required, within 30 calendar days. The Host Transmission Owner shall perform the LCS (see Appendix 2 for minimum LCS requirements) and provide the draft LCS Report to SPP and the Transmission Customer within 60 calendar days of the LCS Agreement execution.

Following receipt of the draft LCS Report, SPP will perform an initial assessment based on the Host Transmission Owner's draft LCS Report to determine whether a Delivery Point Network Study (DPNS) is required. SPP and Host Transmission Owner will coordinate results of that assessment with the Transmission Customer. If SPP and the Host Transmission Owner agree to the results of that assessment, SPP will note such agreement in the LCS report.

If SPP determines that a DPNS is required, or if the Transmission Customer requests a DPNS, SPP shall provide the DPNS Agreement to the Transmission Customer within 5 business days following SPP's determination or Transmission Customer's request. The DPNS Agreement shall commit the Transmission Customer to pay SPP for the actual cost to complete the study. The Transmission Customer shall execute the DPNS Agreement within 30 calendar days. If the Transmission Customer fails to return an executed DPNS Agreement within 30 calendar days, or at a later date as the Parties may mutually agree, SPP and Host Transmission Owner shall deem the request to be withdrawn.

SPP will perform the DPNS and will post the DPNS Report within 60 calendar days of the receipt of an executed DPNS Agreement. If SPP is unable to complete the study in the allotted time, SPP shall provide an explanation to the Transmission Customer and Host Transmission Owner regarding the cause(s) of such delay and revised completion date and study cost estimate.

Comment [dkh1]: Update flow chart as needed

If SPP determines that a DPNS is not required, the Host Transmission Owner shall provide the final LCS Report to the Transmission Customer and SPP. SPP shall post the final LCS Report on the SPP website within 10 business days of receipt from the Host Transmission Owner. Any confidential information in the LCS Report will be redacted before the report is posted.

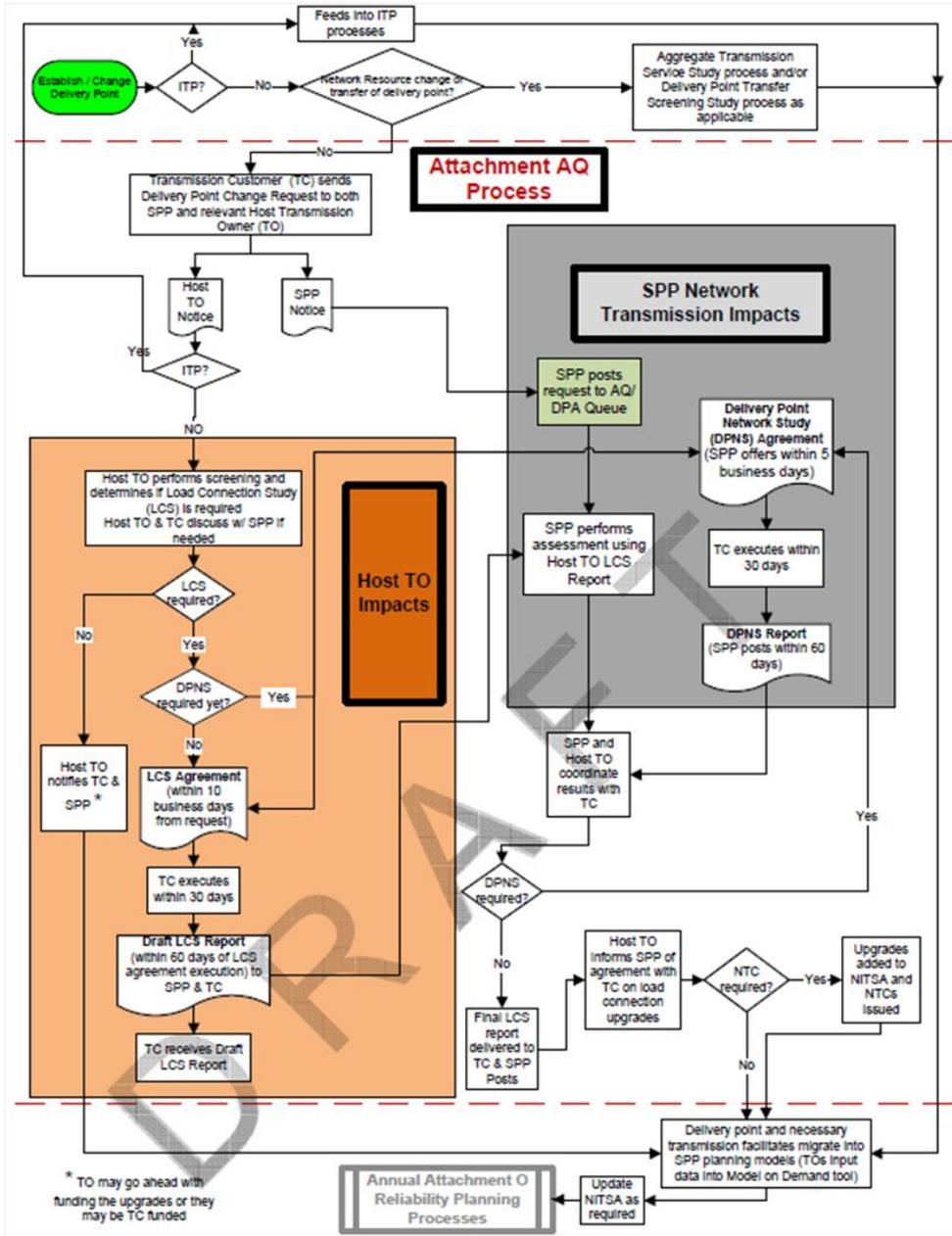
The Host Transmission Owner or Transmission Customer shall notify SPP when an agreement has been reached on load connection upgrades.

A NTC will only be issued if SPP accepts the LCS or performs a DPNS and Network Upgrades were identified by SPP. If a NTC is required, SPP will issue the NTC in accordance with Attachment O and the relevant SPP Business Practices.

If no NTC is required, delivery point and necessary transmission facilities are added to the SPP planning models (TOs input data into Model on Demand tool) which is then included in the annual Attachment O reliability planning processes. SPP will update any corresponding NITSAs, as required.

DRAFT

### Appendix 1 – AQ Process Flowchart



## Appendix 2 – Minimum LCS Requirements

### **Minimum**

- Performed on the MDWG or ITPNT cases as appropriate for the next peak period as well as one year beyond. Typically this will be a summer peak but may be winter in some areas.
- Any changes to the models used will be documented in the LCS report so the results can be reproduced.
- If an NTC is desired, the ITPNT model results must be provided.
- Contingency analyses will be performed on the change case with the new load added. If violations occur compared to the base case. Compare results and determine violations, by applicable NERC standards, caused only by new load.
- Provide study solution to eliminate criteria violations
- Estimate cost of solutions to SPP-criteria or local planning criteria violations +/- 30%
- Include tables for comparison of data
- Present report to requesting load serving entity, and to SPP if requesting out of cycle NTC or load serving entity requests
- The report should state what the customer request was for (load values), the requested ISD, the AQ request number, and the final statement as to when and the conditions under which the load can be served.

### **Desired**

- Provide multiple solutions, with estimated costs, to eliminate criteria violations.
- Make recommendation for upgrades with reasoning (ie cost, feasibility, timing, etc.) for the selection if applicable.
- Create one-line diagram with proposed options identified
- Any unique system protection requirements or system sensitivity that affects how much load can be added at various times should be stated in the report

### **Optional**

- Long term models may also be used in the study. Stability models or motor start studies should only be included if requested by the TO or customer.
- Effect on TPL-003 compliance if a solution seems to create a TPL-003 problem or has the potential to do so.
- Short circuit study and or capabilities at the point of interconnection, including the effects of any proposed network upgrades to support the request.
- Clear specification of the connecting equipment, responsibilities, and cost responsibilities for the customer and the TO

- Assumptions of power factor at the load under study and any consequences of study effects of not meeting that power factor should also be made clear.

- If multiple load requests are being made in the same areas add all prior requests in that area to the model.

- Provide tables which show the incremental load being added to the models and customer load forecast over time, not just the final load at the buses.

DRAFT

## Business Practice Revision

<b>BPR Number</b> 7050	<b>BPR035</b>	<b>BPR Title</b>	<b>PCWG Review of Legacy Projects Over \$20M and 100 kV</b>
<b>Business Practice Section(s) Requiring Revision</b> (include Section No., Title, and Protocol Version)		COST ESTIMATES	
<b>Impact Analysis Required</b> (Yes or No)		No	
<b>MMU Report Required</b> (Yes or No)		No	
<b>Requested Resolution</b> (Normal or Urgent)		Normal	
<b>Revision Description</b>		Replace SPP staff review with Project Cost Working Group (PCWG) review for projects greater than 100 kV and greater than \$20 million.	
<b>Reason for Revision</b>		MOPC directive in January 2013 meeting	
<b>Tariff Implications or Changes (Yes or No; If yes include a summary of impact and/or specific changes)</b>		No	
<b>Criteria Implications or Changes (Yes or No; If yes include a summary of impact and/or specific changes)</b>		No	
<b>Credit Implications (Yes or No, and summary of impact)</b>		No	
<b>Working Group/Committee Review and Results</b>		PCWG – Approved 5/14/2013 BPWG – <u>Approved 6/17/2013 subject to no substantive changes by the ORWG and RTWG</u> ORWG – RTWG – TWG – Approved 4/24/2013	

## Business Practice Revision

	MOPC –
--	--------

Sponsor	
<b>Name</b>	Terri Gallup, PCWG Chair
<b>E-mail Address</b>	tagallup@aep.com
<b>Company</b>	American Electric Power
<b>Company Address</b>	Tulsa, OK
<b>Phone Number</b>	918.599.2242
<b>Fax Number</b>	

<b>Proposed Business Practice Language Revision</b>
---

### COST ESTIMATES

As part of the quarterly project tracking effort as specified in Attachment O of the SPP OATT, Staff will review the cost estimates provided by the designated Transmission Owner(s) and compile a list of ~~P~~projects with NTCs that were issued prior to 1/1/2012 (“Legacy Projects”) with a cost estimate increase of more than 20% from the previous quarter. ~~For Legacy Projects greater than 100 kV and greater than \$20 million, Staff will provide the updated information to the Project Cost Working Group (PCWG).~~

The PCWG will review and provide recommendations to the MOPC and SPP Board of Directors (BOD) regarding any Legacy Project greater than 100 kV and greater than \$20 million that has a cost estimate increase of more than 20% from the previous quarter. Recommended action(s) may include any of the following:

- i. Accept the cost estimate deviation as reasonable and acceptable.
- ii. Identify all or a portion of the costs related to the variances and recommend any changes to the NTC that would reduce the cost or avoid issues that may be causing the increase.
- iii. Suspend all future expenditures on the project while SPP restudies the project to determine appropriate changes to the NTC, possible withdrawal of the NTC or whether an alternative project should replace the project.

For all other Legacy Projects with a cost estimate increase of more than 20% from the previous quarter, Staff will determine the cause of the cost increase ~~for each NTC Project in this list~~ and make a recommendation to the MOPC and BOD as to whether the change in cost estimate is sufficient to justify the Legacy Project being replaced with an alternate Project re-evaluated.

## Business Practice Revision

~~SPP or TWG may request further analysis of a Legacy Project.~~ Any analysis will be coordinated through TWG to identify any reliability concerns.

After SPP holds a 15 day stakeholder review period, a SPP proposed modification to an NTC will go to the SPP Board of Directors for approval action.

**Comment [SP1]:** BPWG struck this sentence to clarify that any reliability analysis would be done as part of a BOD-ordered re-evaluation and that SPP Staff would coordinate it with TWG.