

Southwest Power Pool, Inc.

VOLTAGE TASK FORCE

Net Conference

Wednesday June 29, 2016 8:30 a.m. - 12:00 p.m.

• Action Items and Voting Record •

- 1. Action Item: Coordinate with MDWG to access power factor adjustments for different seasons.**

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• M I N U T E S •

Administrative Items / Attendance / Agenda Review

Chairman Mark Eastwood (City Utilities of Springfield, Mo) opened the VTF at 8:35 AM on 6/29/2016. Jason Tanner (Southwest Power Pool) called attendance. Mark Eastwood reviewed and set the agenda.

Consent Agenda

Jim Useldinger (South Central MCN) moved to approve the Consent Agenda, and Mark Ahlstrom (NextEra Energy Resources, WindLogics) seconded the motion. The motion was approved without opposition or abstention.

Approval Items and Staff Reports for Discussion

Agenda Item 5 – RR Wind and Solar GIA Modifications

Jason Tanner (Southwest Power Pool) discussed the proposed revision request language changes to the GIA for wind and solar resources. Jason discussed FERC order 827 and stated that FERC ruled in favor of removing the exemption for wind resources with SGAs and LGAs to provide voltage control. Jason stated that SPP legal has reviewed the revision request efforts of the VTF and recommended using the language from the pro forma. Jason stated that SPP would like to propose submitting a Tariff filing that differs from the approved FERC order to measure voltage at the point of interconnection opposed to the high side of the GSU. Mark Eastwood (City Utilities of Springfield, Mo) took a poll and 7 VTF members were in agreement with 3 members in opposition to move forward with submitting language to measure at the point of interconnection.

Agenda Item 6 – Offline VSAT Status

Kevin Sanson (Southwest Power Pool) Discussed the SPP efforts to implement offline VSAT for current and next day planning. Kevin stated that his group is in the setup stages now, and are working towards setting up interfaces, adding load pockets along with additional areas that have issues to monitor daily. Kevin stated that results are being compiled, but we are not seeing the results we expect yet. Mark Eastwood (City Utilities of Springfield, Mo) asked what voltage levels are being monitored, and Kevin stated that we are monitoring 100kV and above. Kevin stated that once we are comfortable with the results, we can work towards monitoring lower kV systems. Kevin Ma (Oklahoma Gas and Electric) asked what models are being used and Kevin stated that we are using the IDC models used for our current and next day process.

Agenda Item 7 – Brookline Event and Seams Issues

David Kelly (Southwest Power Pool) discussed the high voltage issues between AECl and SPRM along SEAM, and stated that the high voltage issue occurs due to VARs coming from AECl in conjunction with generation being offline during low load conditions. David stated that SPP is working to compare

modeling between SPP and TVA, and is working to review current operating guides. David stated that we have already made adjustments to the current operating guide based on the issue, but we will need to work towards creating a permanent solution. David stated that SPP is attempting to replicate the issues we see in realtime within our planning studies, and stated that we also have a joint planning study in place with AECl now to target areas such as Brookline to replicate system conditions in place at the time of the voltage issue. Kyle Drees (Westar Energy) stated that Westar has experienced similar issues on their system, and asked if SPP uses the same power factor in peak load period or makes adjustments similar to the way Westar makes adjustments. Will Tootle (Southwest Power Pool) stated that SPP keeps same ratio and does not adjust the power factor. David Kelly recommended that SPP take this under consideration in our process also, and propose the idea to MDWG for consideration. Kevin Ma (Oklahoma Gas and Electric) stated they are seeing similar issues related to voltage with high loading during peak season, and stated he would like to see an update on the joint planning study. Kevin recommended that the VTF continue discussions at a future VTF meeting.

Action Item: Coordinate with MDWG to access power factor adjustments for different seasons.

Agenda Item 8 – 2017 VIS Phase 2 Update

Jason Tanner (Southwest Power Pool) provided an update for the 2017 VIS phase 2 project and stated that SPP is contracting with Powertech labs, and the scope going to July MOPC for approval. Jason stated this phase will continue to apply outages to mimic real time operations, and perform a voltage stability and transient analysis. Jason stated the study will analysis load pockets for Eastern Nebraska, South Oklahoma, SPS-South, West Oklahoma, South Central Westar, Kansas City Metro, Oklahoma City, and Williston. Jason stated that the study will analysis frequency response and a 5 minute ramping analysis will be performed. A draft report will be prepared toward the end of the year with a finalized report provided by January 2017. Casey Cathey (Southwest Power Pool) stated that we are planning to host a summit and are targeting the January MOPC. Mark Eastwood (City Utilities of Springfield, Mo) asked what is being used for as an input for voltages, and Casey stated that Operations and Planning are working with PowerTech Labs to provide realistic operation input data. Casey stated that we provided PowerTech with block dispatch files with a pecking order similar to ESWG, which is viable from a SCED perspective. We also requested that PowerTech to stop the simulation upon voltage collapse and provide results prior to dispatching any DVERs.

Agenda Item 9 – 2018 VIS Scoping

Jason Tanner (Southwest Power Pool) discussed the 2018 VIS Draft Scope and suggested to the VTF that the task force members begin working on items they would like to see studied, and add to the scope. Jason suggested that we could use this scope to perform mini studies such as the Brookline issue, which could provide added value to the Planning process by demonstrating actual operational issues. Jason stated that once the VTF has a drafted scope finalized we will need to ensure topics are cross-referenced with other efforts going on in other working groups then we can bring the scope before ORWG, TWG, and ESWG for approval. Jason stated we will continue discussions during the VTF meeting in Kansas City to finalize a full draft scope document.

Agenda Item 10 – Meeting Schedule

- a. 7/27 – 7/29/2016, Face-to-Face, Kansas City (confirmed)
- b. 8/30/2016, Net Conference, 0830-1200
- c. 9/28/2016, Net Conference, 0830-1200
- d. 10/26/2016, Net Conference, 0830-1200

Agenda Item 11 – Adjourn

Secretary Jason Tanner (Southwest Power Pool) adjourned the VTF at 11:04 AM on 6/29/2016.

Respectfully Submitted,

Jason Tanner
Secretary



Operating Reliability Working Group
Meeting Attendance: 5/26/2016
M=Member, G=Guest, S=SPP Staff, P= Proxy



Day 1	Name	Status	Company
x	1 Chariman Mark Eastwood	M	City Utilities Springfield
x	2 Jim Useldinger	M	South Central MCN
x	3 Kevin Harrison	M	ITC Holdings Corp.
x	4 Sakshi Mishra	M	AEP Service Corporation
x	5 Mark Ahlstrom	M	NextEra Energy Resources, WindLogics
x	6 Feng (Kevin) Ma	M	Oklahoma Gas and Electric
x	7 Rouslan Tzartzev	M	EDP Renewables
x	8 Clinton Bruhn	M	Lincoln Electric System
x	9 Kyle Drees	M	Westar Energy
x	10 Dustin Betz	M	Nebraska Public Power District
A	11 Neal Faltys	M	Omaha Public Power District
x	12 Mike Grimes	G	EDP Renewables
x	13 Amanda Underwood	G	Omaha Public Power District
x	14 Jeff Knottek	G	City Utilities of Springfield
x	15 John Allen	G	City Utilities of Springfield
x	16 Steve Gaw	G	The Wind Coalition
x	17 Kevin Sanson	S	Southwest Power Pool
x	18 Will Tootle	S	Southwest Power Pool
x	19 Jason Tanner	S	Southwest Power Pool
x	20 Casey Cathey	S	Southwest Power Pool
x	21 Neil Robertson	S	Southwest Power Pool
x	22 Temper Williams	S	Southwest Power Pool
x	23 Mike Nugent	S	Southwest Power Pool
x	24 Kim Gorter	S	Southwest Power Pool