



**Southwest Power Pool, Inc.
WEST MODELING TASK FORCE
Net Conference**

Tuesday April 16, 2019 2:00 PM – 4:00 PM MDT

• M I N U T E S •

Agenda Item 1 – Call to Order

Derek Book called the meeting to order at 3:05 p.m. MDT on 04/16/2019.

Agenda Item 2 – Attendance

Tim Phillips recorded the meeting’s attendance as shown in the table below:

WMTF Member	Entity
Craig Bear	Arizona Generation and Transmission Cooperatives
Derek Book	Platte River Power Authority
Eric Raatz	Tucson Electric Power
Maude Grantham-Richards	Tri-State Generation and Transmission Association, Inc.
Claire Van Gundy	Xcel Energy (PSCO)
Tim Phillips	SPP, Modeling and Data Integrity
Brad Johnston	SPP, Customer Relations
Stephen Jenkins	El Paso Electric
Hagen Boehmer	SPP, Modeling and Data Integrity
Scott Plum	Tucson Electric Power

Agenda Item 3 – Agenda Review

Derek Book reviewed the agenda with the group.

Agenda Item 4 –Data Exchange List Updates.

In the Reliability_West folder – posts PSSE models 4 times a day. Which formats will they be posted in:

ANSWER: In the East, we post a bus-branch PSSE *.raw file. In the West, other formats may be feasible.

Are these formats in use in the west?

PSLF

Areva HDB export format? (Platte River?)

3/26 agenda item – poll the group for the formats they expect.

Answer:

3-26 TIM: investigate the creation of these files types

Platte River, Areva csv exports – node breaker model, would like this to continue.

EPE, PSLF – bus branch (for planning) *.sav files, PSLF – node breaker (for ops planning) *.sav file and Powerworld *.pwb(upon request)

3-26 TIM: Eric, TEP GE’s PSLF has a drop down menu item “import WSM data” which is a *.csv file downloaded from Peak’s website. (is this file the same as the “areva csv file”)

Who at SPP, should RC west customers coordinate their licensing with for the study apps?

Vahram? Any specific format for data submittals? Vahram can provide SPP example files/formats.

Tim: Look at the data format examples Vahram sent a few weeks ago.

1. Review the types of data exchange needed for RC services and determine the
 - a. mechanism of data exchange between the TOP, BA and RC – **XFER**, ICCP
 - b. Near real-time data via **ICCP** – Julia/Karen are taking care of circuit installs. David P. is modeling object ID's
 - c. BA Load and Generation Forecasts –XFER? **4/16** – is this something we expect the BA to submit
 - d. BA Net Scheduled Interchange –XFER?
 - i. 4/16 EPE is not using Peak's forecasted NSI in studies, EPE uses NSI data from OATI
 1. **Tim**, Let Yasser know.
 - ii. **3-26 TIM:** Load and Generation forecasts are rolled up by the BA, WMTF needs to consolidate the details and make sure these BA's have ACCESS to XFER for submittal
 - e. Facility characteristics and ratings – Handled through the SPP Ratings Submission Tool (RST)
 - f. **Current Day Next Day Study results and models** – posted in Studies_West folder on XFER
 - i. 4/09 update – XFER user id's and passwords were sent out to everyone on the list. User's should expect to see another email today containing the link to the XFER site.
 - ii. 4/16 EPE is good with XFER, PSCO is good, TEP is good, PRPA is good, AEPCO is good,
 - iii. In the Sudies_West folder, we need a sub folder named "OPA" Operations Planning Analysis (for uploading current day/next day studies), then under the OPA folder we'd need all the company folders. Lance
 - g. Real-time Contingency Analysis results – XFER and cody's display? **TIM:** Check this one, **Will RTCA results be available in displays in RDS?(Tracy)**
 - h. Outage schedules via CROW – CMSTF is coordinating **CROW access**
 - i. 4/16 - Companies have received the request to submit access requests to SPP CROW.
 - i. PMU data exchange **TIM:** Check with Cody's group for an update. Is PMU data required? What is the timeline, the customers need to know if mandatory.
 - j. Planned Outage coordination study results - XFER?
 - k. Reserve Sharing Data

Legend:

Complete

Underway

SPP Question: Which companies will make licenses arrangements with GE to have the ability to run powerflow and STCA in the RDS on EMS.

3/26 Answer: Stephen, EPE will be interested in getting licenses, currently uses apps in HAA

Shashi, TEP currently uses apps in HAA, will be determining if licenses will be needed for use with SPP RDS

Derek B.? Platte River,

3-26 TIM: Ask GE if current "Peak" licenses will carry over to "SPP" licenses.

04/09 update: Internal discussion at SPP determined that SPP RC customers should pose the license question to GE directly. It may be helpful to point out to GE that during Shadow Operations, customers

could be running studies on both the Peak HAA and SPP RDS. If able, please report your findings to the WMTF.

Scott, from TEP; Will the RTCA results look similar to Peak's HAA displays?

TIM: list here the various ways the SPP will provide/display RTCA results to customers

Agenda Item 5 – WSM Model Validation/Review

4/09 update: For the informal review of the current WSM, the WMTF needs a response from each entity to complete this task. Currently, El Paso, WAPA and **PSCO** have indicated they are satisfied with the accuracy of the current WSM. Entities can provide their response on the WMTF call (to be recorded in the minutes) or via email to tphillips@spp.org and bookd@prpa.org.

4/16 – When will customers have access to RST?

Ratings updates:

Eric from TEP asked if customers should copy SPP on ratings update emails to PEAK. SPP will accept these email updates leading up to Shadow Operations or until customers have access to RST.

Shashi ? : How will SPP coordinate the transfer of information like forecasts, model updates, and ICCP with Non-SPP entities. How can SPP entities get CALISO information (for their neighbors).

Answer: SPP will have access to CAISO's data store and will pull the required information from the data store and copy it to the SPP FTP XFER site.

Next Steps: Determine which files from the neighbors are needed, how often are they posted. SPP to create scripts to gather the files automatically from CAISO? 4/16 ask lance about this one.

Zea: Do we have a list of contingencies for areas outside the SPP West Area? Does SPP plan on including all of the contingencies in the analysis or scale them back? What is the process for that?

Same question for RAS's. Can I send out the SPP East document?

Answer: We do have a list of contingencies from PEAK. The SPP reliability plan addresses which contingencies are included in the analysis (instructions to get the SPP Reliability Plan are shown below)

TIM: Zea asked if the CMSTF reviewing the SPP Reliability Plan for the West or does the WMTF need to do it. Tim, Check with Yasser B. about the plans for updating the RP. **TIM:** still need to address Zea's RAS question. What will be the criteria for determining which RAS to model?

Agenda Item 6 – Monitored Equipment Methodology (MEM)

Tim: Get high level details from Ryan's RTCA procedure (contingency modeling)

3-26 TIM 4/16: find The NERC 2011 Southwest Outage recommendations might help with the MEM's document and post for the group. Maude from Tri-State provided me the documentation, Thanks!

TIM: Dan at Tri State and Dan at BHC, change log of major system updates (in entire WSM) for each model update. Sometimes, big changes are represented in the model, off-line tools have to be updated

with new gens, etc.. (EMS compare files from SPP? 3-26TIM: can SPP do this, Offline meeting Tim, Dan and Dan)

Agenda Item 6 – Action Items Review

The WMTF did not review the action items. Action items were recorded in the minutes.

Agenda Item 7 – New Items

Eric TEP: What is the submission deadline for RC-RC exchange of outage data, next day studies?(right now, not a defined timeline for submission of daily operational planning data).

ANSWER:

In the East, we get external outage data from SDX (System Data Exchange) every ten minutes. In the west, we'll exchange outage data every 10 minutes (CAISO crowd data). SPP next-day studies will be posted no later than 1500 CPT. I am not sure of CAISO's next-day study posting deadline.

TIM: 3-26 Eric (TeP) Ask Will if the utilities have a deadline to post their next day studies to SPP's FTP site?

4/09 Answer: I spoke with Will Tootle, there is not a deadline for utilities to post their next day studies on SPP's site.

3-26 TIM: update WSM val. Spreadsheet with EPE and WAUE, ask others for their position SPP to understand how entities in the west can access the WSM for review.

How will SPP coordinate data exchange with CALISO entities for use by SPP entities?

TIM: Are there specific data formats for data exchange with SPP?

4/16 What is the plan for neighbor's OPA? **TIM:** - have lance create a folder "External" in the "OPA", under "External" have external company subfolders "PNM, etc" Lance

RTU outage notifications. TEP will use a phone call to the RC or RMT message. EPE sends RTU outage information to WECC.

Time Zones:

Each company's control center time zone:

AEPCO – MST

EPE – MPT

PRPA – MPT

TSTG – MPT

TEP – MST

PSCO – MPT

Official SPP Model Validation (validating West model data) – Diane at WAPA is interested in starting sooner rather than later. **4/16 TIM** – find out when EMS will be available to customers on the SPP RDS.

Agenda Item 8 – Meeting Schedule

4/23/2019 WebEx (Tues) 2:00 PM – 4:00 PM MST

5/07/2019 WebEx (Tues) 2:00 PM – 4:00 PM MST

Face-to-Face (location and date TBD 2019) *Face to face meeting to focus on methodology to identify which components of the system warrant monitoring.*

Adjournment

The meeting adjourned at 4:16 p.m. MDT on 04/16/2019.

The following agenda items will be discussed at future meetings:

- Review our objectives:
 - Network Model
 - ICCP Design
 - ICCP Communications
 - Replicated Data Server access/demonstration/start time
 - Model Data exchange between RC's presentation (heads up information, Q2 2019)
 - Create a methodology to identify components of member and neighboring systems that warrant monitoring and analysis in SPP's Real Time Assessments

WMTF Charter Scope Items:

- 1- ~~Review the SPP Reliability Data Specification and make changes unique to West RC Services~~
2. Review the current state of each SPP RC West system in the WSM and identify needed changes
3. Create a methodology to identify components of member and neighboring systems that warrant monitoring and analysis in SPP's Real Time Assessments
4. Review the types of data exchange needed for RC services and determine the
 - a. mechanism of data exchange between the TOP, BA and RC
 - b. Near real-time data via ICCP
 - c. BA Load and Generation Forecasts
 - d. BA Net Scheduled Interchange
 - e. Facility characteristics and ratings
 - f. Current Day Next Day Study results and models
 - g. Real-time Contingency Analysis results
 - h. Outage schedules via CROW
 - i. PMU data exchange
 - j. Planned Outage coordination study results
 - k. Reserve Sharing Data
5. ~~Setup mechanisms and schedules for monthly model-coordination of system changes in preparation for Shadow Operations~~ (XFER site, Modeling_West)
4/26: XFER access appears to be complete, several entities have confirmed access
TIM: ask Lance how items will be deleted or cleaned up periodically. Customers have requested the ability to delete items from the folders. Additionally, can customers create new folders? Also, where would the schedule be documented...???
Tim to write model update document. Peak has a model update document I could review.
4/16 Update: The SPP RDS has the guidelines for submitting Topology Updates.
6. Review the quality of the SPP RC West model and near real-time data coverage of the SPP RC West model and provide an approval of the model from each entity's system to the WRWG

Relationship-Based • Member-Driven • Independence Through Diversity

Evolutionary vs. Revolutionary • Reliability & Economics Inseparable

• Action Items and Notes •

~~ACTION ITEM: The task force is to decide when the SPP West members should begin submitting modeling updates/data to PEAK RC and SPP RC in parallel.~~

ACTION ITEM: The task force needs to determine how the group will review the WSM. Reviewing the model using the SPP Replicated Data Server (RDS) is a possibility.

ACTION ITEM: Tim Phillips is to get more details on when the SPP Replicated Data Server would be available for use. Tim Phillips will check with Karen Mille about the status of the onboarding process.

Respectfully Submitted,
Tim Phillips, WMTF Staff Secretary