

**Southwest Power Pool
WESTERN RELIABILITY EXECUTIVE COMMITTEE
Wednesday, November 20, 2019
12pm to 4pm MST (1pm to 5pm CST)
Southwest Power Pool, Little Rock, Arkansas**

• M I N U T E S •

1. Call to Order

Keith Carman called the meeting to order at 12:00pm MST (1:00 pm CST) on Wednesday, November 20, 2019.

2. Attendance and Quorum Determination

CJ Brown took attendance (attached) and confirmed that quorum was met. There were two proxies for the meeting - Linda Jacobson-Quinn (FEUS) for Hank Adair, and Sam Rugel (TEP) for John Tolo.

3. Review and approval of WREC meeting agenda

Keith Carman requested for approval of the meeting agenda. Linda Jacobson-Quinn motioned to approve, seconded by Bob Staton; with no further discussion or opposition, the motion was approved.

4. Approval of WREC Minutes from October 18, 2019 open meeting

Keith Carman requested approval of the minutes if there were no changes. Linda Jacobson-Quinn motioned to approve, seconded by Jonathan Aust; with no further discussion or opposition, the motion was approved.

5. Review of Past Action Items

a. Tim Miller (SPP) to share information on EMS modeling timeline, including the process of emergency modeling.

This item is on today's agenda to present.

b. Yasser Bahbaz will prepare educational slides on "flowgate" versus "path" approach.

This item is on today's agenda to present.

- c. **CJ Brown will provide information on RTCA expectations, including SPP RDS and RTA procedure.**

This was to be discussed under “Other Items” in this meeting, but has been postponed until next face-to-face meeting in January 2020 at El Paso.

- d. **CJ Brown will make sure the WRWG and ORWG leaderships are aware of the intent of the October 1st, 2020 joint meetings.**

Completed.

6. **WRWG Updates and Approval Items**

Denton McGregor provided WRWG updates, stating that PSCO asked for clarifications on submitting compliance recommendations from TOPs/BAs to the SPP RC; and that Cody Parker’s team made some updates to R-Comm, including improvements to allow some entities with multiple RC areas or operating companies to have multiple sign-ins.

Denton said that the Reliability Data Specifications for SPP West Customers was revised today under the expedited portion of the Modification Oversight Process (MOP), which is the first document subjected to the requirements of the MOP process, even though it was effective dated for December 3, 2019 when SPP goes-live with RC Services for the West.

Bob Staton asked about discussions on dissolving the WRWG or the Task Forces after December 3. Keith Carman said he envisioned WRWG will stay, while the Task Forces could eventually be dissolved. Denton McGregor explained that the discussion is to have the Task Forces report to the WRWG on the next face-to-face meeting in January with any outstanding items, and at that time, the WRWG will follow up on those items and make the recommendation to either dissolve the Task Forces or continue any of the Task Forces until their business is finished.

7. **SPP Project Status Update**

CJ Brown said he sent out the project update report about a week ago, as well as an announcement earlier this week that SPP has received the RC certificate after closing out the Bucket 2 items and is ready for go-live. CJ said that SPP is still working on other outstanding

items with other entities even though the big corner items are completed, including cleaning up some of the external data and regular model upload on December 1st. CJ voiced his appreciation on working with all the entities and their staff, and looks forward to operating with them as RC on December 3rd. Keith Carman and Bob Staton both concurred and said they also appreciate working with SPP and are looking forward to working with SPP as RC of record.

8. SPP EMS/ICCP modeling

Tim Miller provided an overview of the EMS model used by SPP RC and its downstream applications and Replicated Data Server. Tim introduced Ryan Jones as one of the SMEs for his team. He said that the SPP EMS team does monthly upload, and that the next model upload will be on December 1st at midnight. He further explained the reason SPP does it at midnight is to facilitate Market Settlements with clean invoicing, even though the RC services are not affected by that.

Tim explained that the model upload process starts with the development phase at the beginning of the month through the QA phase at the middle of the month, and then the upload on the last couple of days of the month into the production server that will be put on standby until midnight of the actual day to turn it on. SPP will work with its members and customers on model changes about 45 days prior to the monthly model upload. But most models do not get modeled very far ahead of a month, except for significant projects, such as a new 500kV substation which could have unexpected changes in construction schedules.

Tim provided three scenarios where SPP had to perform emergency model uploads, saying that each scenario basically follows a common process of whether SPP could get by with the existing model, or if it is necessary to build a new model with minor changes. SPP will then evaluate the risk of making the database change within the operational window. In other words, there is no cut and dry in regards to emergency EMS modeling but that SPP will work on each issue as it comes up.

In answer to Bob Staton's question regarding CAISO's model upload schedule, Tim said that CAISO is on a bi-monthly process at this time, which means they have 90 days to prepare with a

tier system in terms of lead time, whereas SPP does it around 45 days. Tim added that SPP does try to get around CAISO's lead time, and does not anticipate any issues, since SPP conducts monthly phone calls with its neighbors to discuss model uploads and as often as needed.

Keith Carman asked how quickly SPP can make model or database change based on those three scenarios. Tim Miller said that with only one West RC model, SPP should be able to changes for the Western model quicker than the Eastern model, so he anticipate one full business day, or a 12-hour work for 2 days, to model in authorized EMS used by the market where the Replicated Data Server is fed from and where RTCA results are posted from. He further said that SPP RC operators only use the production EMS for their monitoring.

Jonathan Aust said that there was a conversation back in September/October, where SPP EMS is in production while SPP is working on implementing the West RC service at the same time. He asked if SPP EMS has a QA process for the West to which customers have access; which Tim Miller said that even though SPP does have a market testing environment for testing big projects, there is no Replicated Data Server in that environment, and admits it could be a potential gap. Tim added that the Model Submission Tool used in the East can be viewed at an offline state with power flow, such as breaker layout, line impedance, etc.

With no other questions, Tim Miller walked through his presentation slides.

9. "Flowgate vs Path" education and discussion

Yasser Bahbaz gave this presentation on the difference between "Flowgate" terminology used in the East and the "Path" terminology used in the West.

Jonathan Aust asked if SPP plans to share some of its internal displays to the TOPs, to which Yasser said that in order to be CIP-compliant, his understanding from Cody Parker (SPP) is that it will not be easy to share that outside of SPP's network, but that the TOPs can try to compare the flowgates using R-Comm instead. Jonathan Aust would like to keep this topic open with WRWG instead for future consideration.

After Yasser Bahbaz’s presentation, CJ Brown commented that typically, SPP operators would call a flowgate combination a “transmission element” for the lost of another “transmission element”, except for temporary flowgates. He added that this is not the methodology but rather, a habit, and the current approach that SPP uses.

Sam Rugel would like Yasser Bahbaz to share his educational slides to the Trainers who will be training the operators, so they can understand the difference and the reason to use the term “flowgate”. Tim Miller said that flowgate loading can also be monitored in ICCP, including temporary ones which are predefined with a number that the operators will need to know. Keith Carman, Bob Staton, and Jonathan Aust all voiced concerns that the “flowgate” term may still be unknown to the West operators, and would like SPP to provide some form of training to allow the West operators to get comfortable by walking through it instead of just assuming. CJ Brown agrees and understands their concerns, and said SPP will provide as much education as possible with a self-guided training material to their operators on the “flowgate” term, preferably before December 3, 2019.

10. Shared RC Tools Management Update

CJ Brown said he has sent out some executive documents earlier, including information on cost sharing and the WREC charter where he is waiting on feedback from the WREC. However, more details will be discussed during the closed executive session.

11. Update on CAISO RC

Keith Carman said they have a footprint in the CAISO RC and they have been live since first of the month but there have not been any issues.

12. Other Items

Keith Carman asked why SPP RC needs a call to be notified of planned outages before the planned outages are to be taken out, saying they should only need to call if there is a change or if it is an unplanned outage, since they do not have to do that with PEAK. Linda Jacobson-Quinn added that the notification is an SPP process and asked if there could be an exception, since the requirement is not in the Outage Coordination Methodology. CJ Brown explained that SPP has seen instances where things changed at the last minute and felt that it would make SPP feel less nervous and believe there is value in doing the last check before any implementations. Keith Carman thinks it is a distraction to their operators' primary job function and could impact reliability, arguing that the additional communication at 59 minutes before the implementation is not necessary unless SPP runs studies before the planned outage is about to start, which CJ Brown replied in the affirmative. Lloyd Linke said that as a TOP, they would still want approval before the switching, since the TOP or the RC may see something that the other party does not see. Linda Jacobson-Quinn said that since the process is not in the Outage Coordination Methodology, not doing it should not be considered a violation if the operators forget to notify the SPP RC. Keith Carman asked that SPP review the Outage Coordination Methodology and keep that topic open for discussion again.

On a separate topic, Jonathan Aust asked how SPP plans to track the outstanding action items after shadow operations, since there are still items that should continue to be tracked even when the project is complete. CJ Brown said that he thinks the WRWG should be the owner and absorb the list, with tracking in the Remedy Management System (RMS). Yasser Bahbaz said he will add that as an action item for WRWG.

Due to time constraint at this point of the meeting, the WREC agreed to postpone the RTCA expectations discussion to the next face-to-face meeting in January at El Paso.

13. Summary of Action Items

- a. Add to the MOP, a consistent process for how changes are moved to production.
- b. Tim Miller will post his presentation material from the November 20 meeting to Globalscape and notify the WREC (Rep only) when it is ready for retrieval.

- c. Tim Miller will email the user guide for the Model Submission Tool document.
- d. SPP will send out educational material on Flowgate versus Path by December 3.
- e. SPP will conduct Macomber Map education at the January 2020 WREC meeting in El Paso.
- f. SPP will review the Outage Coordination Methodology for any improvements that can be made in the communications processes.
- g. SPP will provide information on RTCA expectations, including SPP RDS and RTA procedures.

14. Future Meetings

Keith Carman went over the future meeting dates.

<u>Date</u>	<u>Time</u>	<u>Host</u>
12/6/2019, Friday	8-10am MT	WebEx
1/15/2020, Wednesday	1-5pm local	F2F: El Paso (lunch provided)
4/29/2020, Wednesday	8-10am MT	WebEx
7/29/2020, Wednesday	1-5pm local	F2F: SPP (lunch provided)
10/28/2020, Wednesday	8-10am MT	WebEx

15. Executive Session Discussion

16. Adjournment

Keith Carman called for a motion to close the open meeting at 2:59pm MST (3:59pm CST). Linda Jacobson-Quinn motioned to approve, seconded by Sam Rugel; with no further discussion or opposition, the motion was approved and moved into the executive session.

17. Tour of SPP Control Center

Respectfully submitted,

CJ Brown

WREC Staff Secretary

Attendance:

Keith Carman (Tri-State, WREC Chair)
Bob Staton (Xcel – PSCo, WREC Vice Chair)
Denton McGregor (Black Hills, WRWG Chair)
Abel Bustillos (EPE)
Colleen Wood (WAPA)
Eric Baran (WIEB)
James Fife (PSI)
Jeff Landis (PRPA)
Jonathan Aust (WAPA)
Kaleb Brimhall (PRPA)
Linda Jacobson-Quinn (FEUS) for Hank Adair
Lloyd Linke (WAPA)
Lori Frisk (WAPA)
Marc Desmarais (WAPA)
Maude Grantham-Richards (Tri-State)
Michael Houglum (Tri-State)
Sam Rugel (TEP) for John Tolo
Shane Sanders (AEPCO)
Steve Ashbaker (WECC)
Tim Vigil (WAPA)
Tom Christensen (BEPC)
Warren Rust (CSU)
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CJ Brown (SPP, WREC Staff Secretary)
Ashley Stringer (SPP)
Bruce Rew (SPP)
Melissa Rinehart (SPP)
Ryan Jones (SPP)
Samantha Gwei (SPP)
Tennille Tims (SPP)
Tim Miller (SPP)
Yasser Bahbaz (SPP)