

**SOUTHWEST POWER POOL
MODEL DEVELOPMENT ADVISORY GROUP MEETING**

April 18, 2024, 9:00 am – 12:00 pm (CST)

Conference Call

SUMMARY OF MOTIONS AND ACTION ITEMS

Action Items:

- **Action Item:** Email Lottie with any MDAG future meeting topics.

Motions:

- **Motion:** Jesse Kreutzfeldt motioned to approve the agenda as presented. Tim Sell seconded the motion. The motion passed unanimously.
- **Motion:** Tim Sell motioned to approve the March 21, 2024; meeting minutes as presented. John Vara seconded the motion. The motion passed.
- **Motion:** Jesse Kreutzfeldt motioned to approve the new MDAG Manual language regarding FERC Order 881. Nathan Davis seconded the motion. Dustin Betz, John Vara, Scott Schichtl, Scott Rainbolt, and Preston Blinsky abstained. The motion passed.

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MINUTES

AGENDA ITEM 1 – ADMINISTRATIVE ITEMS

AGENDA ITEM 1A & 1B – CALL TO ORDER AND ANTITRUST STATEMENT

MDAG Chair, John Turner, called the meeting to order at 9:02 a.m. (CST) with Quorum. SPP Staff Secretary, Lottie Jones, read the anti-trust statement to the group.

AGENDA ITEM 1C & 1D – ATTENDANCE AND PROXIES

The following members attended or were represented by proxy:

MDAG Member	Present	Proxy	Present	Company
Alex Mucha	Yes			Oklahoma Municipal Power Authority
Brianna Haug	Yes			Western Area Power Administration, MDAG Vice-Chair
Dustin Betz	Yes			Nebraska Public Power District
Jason Shook	No			GDS Associates
Jerry Bradshaw	No	Glen Halley	Yes	City Utilities of Springfield
Jesse Kreutzfeldt	Yes			Missouri River Energy Services
Joe Fultz	Yes			Grand River Dam Authority
John Turner	Yes			Western Farmers Electric Power, MDAG Chair
John Vara	Yes			Golden Spread Electric
Liam Stringham	Yes			Sunflower Electric Power Corporation
Lottie Jones	Yes			Southwest Power Pool, Inc., MDAG Secretary
Mike Swan	Yes			Omaha Public Power District
Nathan Davis	Yes			Liberty Utilities
Preston Blinsky	Yes			Basin Electric Power Cooperative
Reené Miranda	No	Antonio Barrera	Yes	Southwestern Public Service
Ryan Baysinger	Yes			Eergy
Scott Rainbolt	Yes			American Electric Power
Scott Schichtl	Yes			Arkansas Electric Cooperative Corporation
Timothy Sell	Yes			ITC Holdings
Tyler Baxter	Yes			Corn Belt Power Cooperative

Material: APR18_Attach2 - 1c. MDAG Conference Call Attendance-04-18-2024

AGENDA ITEM 1E – AGENDA REVIEW (**APPROVAL ITEM**)

John Turner, MDAG Chair, asked the group if they had a chance to review the agenda and if the group had any modifications to the agenda.

Motion: Jesse Kreutzfeldt motioned to approve the agenda as presented. Tim Sell seconded the motion. The motion passed unanimously.

Material: APR18_Attach1- 1e. MDAG Meeting Agenda

AGENDA ITEM 1F – PREVIOUS MARCH 21, 2024, MEETING MINUTES (**APPROVAL ITEM**)

Lottie Jones asked the group if they had any proposed changes for the previous meeting minutes on February 15, 2024.

Motion: Tim Sell motioned to approve the March 21, 2024; meeting minutes as presented. John Vara seconded the motion. The motion passed.

Material: APR18_Attach3- 1f. March 21, 2024, Meeting Minutes.docx

AGENDA ITEM 2 – REVIEW OF PAST ACTION ITEMS

Lottie Jones discussed outstanding issues, which are highlighted in red font. Lottie walked the group through updates on action items collected at the previous session and updates for existing in-progress action items.

- Action Item 164 – In Progress – SPP staff will respond to WAPA on their roadmap decision.

AGENDA ITEM 3 – GENTPJ RETIREMENT

SPP Staff, Zach Sabey, provided the group with an update on the GENTPJ Retirement language for the MDAG Manual and provided a recommendation for approval.

Dustin Betz asked if there is a recommended model to be used and if there is not currently a recommended model type; however, there are currently three different options.

Michael Swan asked if there would be a recommendation for the timeline of the change. Gen Type J is fine for the current models; however, they will need to be updated for future model submissions.

John Vara asked about moving away from the Gen Type J model type. Evergy has done some internal testing, and it is experiencing erroneous oscillations that cause the dynamic models to not respond as expected.

Josh Hesselbein (chat): I believe MISO is also recommending moving away from GENTPJ.

This should be part of the non-recommended model list in the future.

Chris Colson

(chat): <https://www.wecc.org/Reliability/Retirement%20Plan%20for%20GENTPJ.pdf>

Dustin Betz commented that some units are too small for Gen Type J, so they will have to be converted to something else in the future for MOD-026 and MOD-027.

Chris Colson mentioned that with the retirement date of the end of the 2024 calendar year, the dynamics models for fall 2024 would be the last model set to use the Gen Type J models. Retirement would be in December 2024 for all new models and won't affect existing Gen Type J models until they are remodeled. This is likely simply a model change and will not change any existing equipment.

Evergy Recommendation: Evergy recommends the MDAG approve the retirement of the GENTPJ dynamic model, effective 12/31/2024.

Future generator testing (MOD-026/027) should use a different generator model than the GENTPJ.

Nathan Davis with Liberty believe that the GENROE and GENROU models were obsolete, is this not the case? GENQEC is available on PSSE V35 and would be another option.

This approval item will be brought back to the May MDAG meeting to give everyone time to discuss and Marc Moor can be on the call as well.

AGENDA ITEM 4 – MDAG MANUAL LANGUAGE APPROVAL (APPROVAL ITEM)

SPP Staff, Lottie Jones, discussed the MDAG Manual updates with the group.

These updates will include FERC Order 881 updates; however, it will not include GENTPJ updates as this topic has been moved to the next MDAG meeting in May.

Chris Colson mentioned that, as a stakeholder is advocating for the new language around FERC Order 881.

Josh Hesselbein (chat): Is this language intended to make normal and emergency ratings different? Or can they still be the same, depending on the equipment?

Chris mentioned that emergency ratings must be uniquely determined; however, the TO can decide upon its ratings. If you choose your normal and emergency ratings are the same, you should have good justification and logic behind this change.

Dustin Betz with NPPD mentioned that the existing language in the manual is sufficient and gives members enough latitude to set emergency ratings.

Nathan Davis asked if it is possible to use the same ratings for normal and emergency ratings. John Turner mentioned that this could be possible; however, it must be documented that you have a unique process for each.

Chris Colson mentioned that what you do as a TO to define your normal and emergency ratings is under your purview; however, you should pay close attention to the definitions around Attachment AJ in the MDAG Manual language updates (Items 5 and 6).

John Vara commented that since they are not a TO and all the transmissions, they own are radial, this new language does not apply. John mentioned that the way FERC looks at it is any transmission line. Chris noted that they are defined as 60kV and above. FAC-008 applies to BES equipment, and non-BES items are still subject to the order. It is only tariff facilities.

Josh Hesselbein (chat): Does the manual explicitly define the timespan for 'emergency'? Each TO may have different emergency time spans in their methodologies. I'm wondering if a TO submits a xfmr emergency rating that is over the nameplate rating, it may impact insurance and manufacturer warranties. I don't think it should be added to the manual. I just want members to think about it. Think about the ramifications of going over nameplate, that is.

Lottie Jones (chat): A quick search, it does not include that language Josh.

Chris mentioned that the MDAG manual does not try to define how you come up with the normal and emergency ratings; it simply requires that you have a defined methodology for determining these ratings.

Shannon Mickens mentioned that the assumption is that FAC-008 sets your definitions for normal and emergency ratings; however, the goal is to have membership participation to address any concerns around AARs and seasonal ratings.

Chris mentioned that the two changes to the MDAG Manual are lightweight but very important as they begin to define the process for how we are to meet the requirements for Attachment AJ and FERC Order 881.

Jordan Skillern (chat): IEEE C57.91 Guide for Loading Mineral-Oil-Immersed Transformers and Step-Voltage Regulators.

Chris mentioned that if you decide that your spring, summer, and fall ratings are the same, you can do that if you have a methodology for these seasonal ratings to remain the same.

Josh Hesselbein asked a question regarding FAC-008 and if the MOD-032 data should match.

Chris commented that in planned models, there are no requirements for the ratings to match; however, they must be consistent with your facility ratings methodology.

Dona Parks echoed Chris' comments as well.

MOTION: Jesse Kreutzfeldt motioned to approve the new MDAG Manual language regarding FERC Order 881. Nathan Davis seconded the motion. Dustin Betz, John Vara, Scott Schichtl, Scott Rainbolt, and Preston Blinsky abstained. The motion passed.

AGENDA ITEM 5 – MDAG MEMBERSHIP

MDAG Chair, John Turner, notified MDAG that Michael Swan has been selected as the newest MDAG member through MOPC nomination, MDAG Leadership voting, and SPP leadership approval. Congratulations Mike Swan!

AGENDA ITEM 6 – SCRIPT C3/CPPTF UPDATE

SPP Staff David Duhart provided the group with a Script C3/CPPTF update.

SPP is currently still working on the recommendation that the CPPTF provided.

C3.1 to C3.3 all goes hand in hand, and everything is situated and follows along with the current model build with the big difference being that there will be an additional energy model.

This energy model would look like an ITP model but be dispatched like a market one.

This model would utilize Pearl Street and TARA, which differs from our current model-building process.

Lottie asked if we would rebrand the MDAG models as the MMWG input models.

Brianna Haug, will data submitters be submitting all data to EDST, or will MOD still be utilized? David mentioned that Gen and Load are related to economic models, and members will still be submitting data through the normal means for the base reliability models.

Brianna asked if SPP will be grabbing data from MOD and EDST so that data submitters will not need to submit to both platforms and duplicate data.

Lottie (chat): Under the current ENGINEERING DATA SUBMISSION TOO, list the data housed in EDST containing informational and modeling data.

Ala commented that he hopes all the issues will be flushed out before finalizing all of the data and requirements for SCRIPT CPPTF.

AGENDA ITEM 7 – FOCUS GROUP/TASK FORCE UPDATES

AGENDA ITEM 7A – RAD TASK FORCE

SPP Staff, Jamie Spickes, provided the group with an update from the previous RAD Task Force meeting. The goal is to update our methodology to expand our data so that we can make a better-informed decision on how we are dispatching wind within our footprint.

Technical discussions to be held in both the MDAG FG and RADTF meetings.

AGENDA ITEM 8 – 2024 SERIES MODEL BUILD/APPLICATION UPDATES

AGENDA ITEM 7A – MOD-033

SPP staff, Eric Sullivan, updated the group on the 2024 Series MDAG MOD-033 model build.

AGENDA ITEM 7B – DYNAMICS

SPP staff, Zach Sabey, updated the group on the 2024 Series MDAG Dynamic Model Build Update with the current tasks and key reminders.

AGENDA ITEM 9 – DISCUSSION OF FUTURE MDAG TOPICS

SPP staff, Lottie Jones, asked the group for any future MDAG topics they would like to discuss or mentioned that they can be emailed to John, Brianna, or Lottie for future discussion.

David Zhong asked about the in-person MDAG meeting in June and whether we have decided on a location. The meeting should be held in Kansas City, and it will be discussed in a meeting within the next week or so.

AGENDA ITEM 9 – DISCUSSION OF FUTURE MEETINGS

John Turner, MDAG Chair, updated the group on upcoming meetings.

- a. RAD TF: May 22, 2024 (1:00 PM – 3:00 PM)
- b. MDAG Focus Group: May 21, 2024 (1:00 PM – 3:00 PM)
 - i. Facilitate technical discussions.
 - ii. MDAG changes (manual, schedule, etc.) must be discussed in FG before being brought to MDAG.
- c. TWG: May 21, 2024 - May 22, 2024 (9:00 AM begins)
- d. MDAG: May 16, 2024 (9:00 AM – 12:00 PM)

MDAG encourages you to check out the spp.org calendar for additional information on technical topics discussed in other working groups. SPP also offers stakeholder trainings [found here](#)

AGENDA ITEM 9 – SUMMARY OF ACTION ITEMS

John Turner, MDAG Chair, and Lottie Jones, Staff Secretary, indicated the following new action item from this meeting.

- **Action Item:** Email Lottie with any MDAG future meeting topics.

AGENDA ITEM 12 – ADJOURN

John Turner, MDAG Chair, adjourned the meeting at 11:35 a.m. (CST)

Respectfully Submitted,

Lottie Jones
Secretary

Eric Sullivan
Secretary Assistant

Attachments

APR18_Attach1- 1e. MDAG Meeting Agenda.docx

APR18_Attach2 - 1c. MDAG Conference Call Attendance-04-18-2024

APR18_Attach3- 1f. March 21, 2024, Meeting Minutes.docx