

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

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

Conference Call

SUMMARY OF MOTIONS AND ACTION ITEMS

Action Items:

- **No new actions from this meeting**

Motions:

- **Motion: Jesse Kreutzfeldt motioned to approve the agenda as presented. Jerry Bradshaw seconded the motion. The motion passed unanimously.**
- **John Vara noticed a correction needed to the previous meeting date during the review of the 12/14 meeting minutes. John motioned to approve the December 14 2023, meeting minutes as presented with updates to the meeting date. Jerry Bradshaw seconded the motion. The motion passed.**

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

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

Conference Call

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 9:03 a.m. (CST) with Quorum. SPP Staff Secretary Proxy, Eric Sullivan, 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 | Y | | | Oklahoma Municipal Power Authority |
| Brianna Haug | Y | | | Western Area Power Administration, MDAG Vice-Chair |
| Dustin Betz | Y | | | Nebraska Public Power District |
| Jason Shook | Y | | | GDS Associates |
| Jerry Bradshaw | Y | | | City Utilities of Springfield |
| Jesse Kreutzfeldt | Y | | | Missouri River Energy Services |
| Joe Fultz | Y | | | Grand River Dam Authority |
| John Turner | Y | | | Western Farmers Electric Power, MDAG Chair |
| John Vara | Y | | | Golden Spread Electric |
| Liam Stringham | Y | | | Sunflower Electric Power Corporation |
| Lottie Jones | Y | Eric Sullivan | Y | Southwest Power Pool, Inc., MDAG Secretary |
| Preston Blinsky | Y | | | Basin Electric Power Cooperative |
| Reené Miranda | Y | Mae Cruz | Y | Southwestern Public Service |
| Ryan Baysinger | Y | | | Evergy |
| Scott Rainbolt | Y | | | American Electric Power |
| Scott Schichtl | Y | | | Arkansas Electric Cooperative Corporation |
| Steve Hohman | Y | Mike Swan | Y | Omaha Public Power District |
| Tyler Baxter | Y | | | Corn Belt Power Cooperative |

Material: JAN14_Attach2 - 1c. MDAG Conference Call Attendance-01-18-2024

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. Jerry Bradshaw seconded the motion. The motion passed unanimously.

Material: JAN14_Attach1- 1e. MDAG Meeting Agenda

AGENDA ITEM 1F – PREVIOUS DECEMBER 14, 2023 MEETING MINUTES (**APPROVAL ITEM**)

Eric Sullivan asked the group if they had any proposed changes for the previous December 14, 2023, meeting minutes.

Motion: John Vara noticed a correction needed to the previous meeting date. John motioned to approve the December 14 2023, meeting minutes as presented with updates to the meeting date. Jerry Bradshaw seconded the motion. The motion passed.

Material: JAN14_Attach3- 1f. December 14, 2023, Meeting Minutes.docx

AGENDA ITEM 2 – REVIEW OF PAST ACTION ITEMS

Eric Sullivan discussed outstanding issues highlighted in red font. Eric 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 – Area 550 – Before taking an MDAG approval vote, SPP Staff, Lottie Jones, will request to add topic to the agenda of an upcoming TWG meeting for further discussion to ensure no other impacts outside of the models.
- Action Item 208 – In Progress – Naming Conventions for Models – SPP Staff, Lottie Jones, to work with Sherri Maxey, TWG Secretary, and Derek Brown, TWG Chair, to add topic to agenda for an upcoming TWG meeting.
- Action Item 210 – Completed – RR452 Request
- Action Item 211 – In Progress – Attachment AJ/FERC Order 881 Language – This item has been moved to the MDAG Focus Group to discuss further prior to bringing it to TWG for MDAG Manual Language approval.

AGENDA ITEM 3 – AREA 550 DISCUSSION (**APPROVAL ITEM**)

WAPA staff, Brianna Haug, led the discussion on the implementation of area 550. The feedback was mixed. Some was in support, and there were others voicing concerns similar to the ones in previous meetings about this initiative. The recommendation is to make the usage of area 550 optional. SPP Staff asked if the topic had been passed by TWG due to the models being impacted. Due to the potential impacts, there were no objections from group with removing this item from the agenda as an approval item and allowing Brianna to present to TWG. The MDAG approval on this item is being delayed until feedback is received from TWG.

MOTION: No Vote Taken...Delayed until after TWG discussion

AGENDA ITEM 4 – MDAG ROSTER UPDATE

MDAG Chair, John Turner announced the resignation of Steve Hohman, OPPD representative, from the MDAG Roster. A replacement will be needed. John encouraged those interested to work with their MOPC representatives. Steve was thanked for his years of service to MDAG.

AGENDA ITEM 5 – NMM UPDATE

Siemens Staff, Martin Mangold, presented an update and overview of the new NMM (Network Model Manager) application. This will eventually be a replacement of MOD (Model on Demand). This new application will be changing the user interface and experience to be more user friendly. It will also feature in-app and email notifications. Martin gave a demo of the

application that is currently in the development phase. The group is excited to start using the new system as soon as possible in parallel with the existing MOD application. The existing MOD File Builder will move to be available inside the NMM application. One future suggestion was to make NMM be able to interact with EDST to eliminate the need for duplicate data. SPP Staff estimated that the new application would be rolled out into Production in the next year or so.

AGENDA ITEM 6 – 2024 SERIES MDAG MODEL BUILD/APPLICATION UPDATES

AGENDA ITEM 6A – POWERFLOW

SPP staff, Hugh Benfer, updated the group on the 2024 Series MDAG/ITP Powerflow model build. Pass 5 models will be posted on January 26. Hugh indicated that pass 5 was the last pass to pull data from both MOD and EDST. Any data added going forward would be for the next model build. For the next pass, the models for MDAG and Final ITP will be built in parallel. Any data submitted should be via IDEVs. MOD should also be updated for the next build. Hugh also gave an update on the patch installation that was to fix an issue with ratings in MOD. The patch has been received and installed.

Joe Fultz, GRDA staff, asked a question regarding how to handle retired generators. Per the MDAG manual, when modeling generation that is not dispatched and/or is non-operational that can be put back into service and has not yet gone through the Attachment AB process for retirement (mothballed) and future retired units, the unit will be modeled offline (in-service status = 0. The capability amounts for PMAX, PMIN, QMAX, and QMIN should not be changed until the unit is fully decommissioned) similar to units that are not dispatched in the particular seasonal model.

Reene' Miranda, SPS staff, had a question about the need of the MDAG models. SPP Staff replied that they were for planning purposes for MMWG and Dynamics. The base case and dispatch requirements of the ITP cases are reasons the MDAG models are used for Dynamics.

AGENDA ITEM 6B – SHORT CIRCUIT

SPP staff, Eric Sullivan, updated the group on the 2024 Series MDAG Short Circuit model build.

AGENDA ITEM 6C – MOD-033

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

AGENDA ITEM 6D – DYNAMICS

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

AGENDA ITEM 7 – DISCUSSION OF FUTURE MEETINGS

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

- a. RAD TF: January 24, 2024 (1:00 PM – 3:00 PM)
- b. MDAG Focus Group: January 23, 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: January 30, 2024 - January 31, 2024 (9:00 AM begins)
- d. MDAG: February 15, 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 8 – SUMMARY OF ACTION ITEMS

John Turner, MDAG Chair, and Eric Sullivan, Staff Secretary Proxy, indicated no new action items from this meeting.

AGENDA ITEM 12 – ADJOURN

John Turner, MDAG Chair, adjourned the meeting at 11:02 a.m. (CST)

Respectfully Submitted,

Lottie Jones
Secretary

Eric Sullivan
Secretary Assistant

Attachments

JAN14_Attach1- 1e. MDAG Meeting Agenda.docx

JAN14_Attach2 - 1c. MDAG Conference Call Attendance-01-18-2024

JAN14_Attach3- 1f. December 14, 2023, Meeting Minutes.docx

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

December 14, 2023 9:00 am – 12:00 pm (CST)

Conference Call

SUMMARY OF MOTIONS AND ACTION ITEMS

Action Items:

- **SPP Staff, Brandon Hentschel, to work with the TWG secretary to schedule some time in an upcoming TWG meeting to discuss items relating to the Attachment AJ MDAG Manual Language change.**

Motions:

- **Motion: Jesse Kreutzfeldt motioned to approve the agenda as presented. Ryan Baysinger seconded the motion. The motion passed unanimously.**
- **Motion: Joe Fultz motioned to approve the November 16, 2023, meeting minutes as presented with updates from Reene Miranda regarding the Area 550 Discussion. Scott Schichtl seconded the motion. There were no other concerns voiced during the discussion of the motion. The motion passed.**
- **Motion: Jason Shook motioned to approve the 2024 TPL Model set. Liam Stringham seconded the motion. The motion passed unanimously.**

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

December 14, 2023 9:00 am – 12:00 pm (CST)

Conference Call

MINUTES

AGENDA ITEM 1 – ADMINISTRATIVE ITEMS

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

MDAG Vice-Chair, Brianna Haug, called the meeting to order at 9:01 a.m. (CST) with Quorum. SPP Staff Secretary Proxy, Eric Sullivan, 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 | Yes | | | GDS Associates |
| Jerry Bradshaw | 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 | No | Eric Sullivan | Yes | Southwest Power Pool, Inc., MDAG Secretary |
| Preston Blinsky | No | | | Basin Electric Power Cooperative |
| Reené Miranda | No | Mae Cruz | Yes | Southwestern Public Service |
| Ryan Baysinger | Yes | | | Evergy |
| Scott Rainbolt | Yes | | | American Electric Power |
| Scott Schichtl | Yes | | | Arkansas Electric Cooperative Corporation |
| Steve Hohman | No | Mike Swan | Yes | Omaha Public Power District |
| Tyler Baxter | Yes | | | Corn Belt Power Cooperative |

Material: DEC14_Attach2 - 1c. MDAG Conference Call Attendance-12-14-2023

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

Brianna Haug, MDAG Vice-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. Ryan Baysinger seconded the motion. The motion passed unanimously.

Material: DEC14_Attach1- 1e. MDAG Meeting Agenda

AGENDA ITEM 1F – PREVIOUS OCTOBER 19, 2023 MEETING MINUTES (**APPROVAL ITEM**)

Eric Sullivan asked the group if they had any proposed changes for the previous October 19, 2023, meeting minutes.

Motion: Joe Fultz motioned to approve the November 16, 2023, meeting minutes as presented with updates from Reene Miranda regarding the Area 550 Discussion. Scott Schichtl seconded the motion. There were no other concerns voiced during the discussion of the motion. The motion passed.

Material: DEC14_Attach3- 1f. November 16, 2023, Meeting Minutes.docx

AGENDA ITEM 2 – REVIEW OF PAST ACTION ITEMS

Eric Sullivan discussed outstanding issues highlighted in red font. Eric walked the group through updates on action items collected at the previous session and updates for existing in-progress action items.

- Action Item 210 – Completed - SPP staff has completed items regarding FERC 841 process and plans for the future.
- Action Item 211 – In Progress – SPP staff committed to getting the RR452 request form posted to spp.org and the MDAG manual updated.

AGENDA ITEM 3 – 2023 MDAG FOR 2024 TPL STABILITY UPDATE (**APPROVAL ITEM**)

SPP Staff, Zach Sabey, presented the 2023 MDAG for 2024 TPL Stability Update. The proposed TPL Model set were posted 11/28, and the updated models will be posted on 12/15.

Motion: Jason Shook motioned to approve the 2024 TPL Model set. Liam Stringham seconded the motion. The motion passed unanimously.

AGENDA ITEM 4 – FERC/NERC UPDATES

SPP Staff, Shannon Mickens, presented recent updates from FERC and NERC regarding Project 2022-02 Modification to TPL-001 and MOD-032, FERC Order 881-A, and the NERC Standards Prioritization. A question came from the group regarding the implementation timeframe for FERC Order 881-A. At this time, no date has been announced. For more information, [Shannon](#) welcomes questions and comments on anything discussed in today's meeting.

AGENDA ITEM 5 – ATTACHMENT AJ MDAG MANUAL LANGUAGE

SPP Staff, Brandon Hentschel, along with WAPA staff, Chris Colson, addressed the questions and concerns over the Attachment AJ MDAG manual language change. Chris went into more details on the drive behind the manual update. Changes to the SPP Tariff is the driving force. Chris shared a link to the group with information regarding the FERC 881.

https://www.spp.org/documents/67491/20220712_order%20no.%20881%20compliance%20filing%20to%20implement%20transmission%20line%20ratings_er22-2339-000.pdf

It was suggested that Brandon and Chris reach out to SPS Staff, Reene Miranda, to discuss his concerns over the manual language change. An action item was also taken for Brandon to work with the TWG Secretary, Sherri Maxey, to schedule some time to discuss this item with the TWG in an upcoming meeting. Brandon also mentioned again regarding the requirement to have a secure place to store the historical ratings data: OASIS or alternate location. Approval for this item will be delayed again with hopes to schedule it in a future meeting this spring.

AGENDA ITEM 6 – AREA 550 DISCUSSION

WAPA staff, Brianna Haug, led the discussion on the implementation of area 550. There are still some concerns from the group about this initiative. Some of the same concerns from the November meeting were voiced again. For the MDAG January meeting (1/18/2024), this item is being scheduled for approval. The recommendation will be to make the usage of area 550 optional.

AGENDA ITEM 7 – RATE 3 UPDATE

WFEC staff, John Turner, gave an update on RR599. He encouraged the group to view the PowerPoint presentation (RR599 MDAG_Chair) in the posted meeting materials for concerns and recommendations.

AGENDA ITEM 8 – RAD TF UPDATE

SPP staff, Darian Richards, gave a review of the previous RAD Task Force meeting and the poll results. The next meeting will be Wednesday, December 20.

AGENDA ITEM 9 – 2024 SERIES MDAG MODEL BUILD/APPLICATION UPDATES

AGENDA ITEM 9A – POWERFLOW

SPP staff, Darian Richards, updated the group on the 2024 Series MDAG Powerflow model build. He also reminded the group of the deadline for Pass 5 submissions is Friday, January 12, 2024. This will be the last chance for addition or removal of generators, loads, retirements, and transactions. After that date, new loads will be required to utilize the ITP Manual 10.3 late data submission process.

AGENDA ITEM 9B – SHORT CIRCUIT

SPP staff, Eric Sullivan, updated the group on the 2024 Series MDAG Short Circuit model build.

AGENDA ITEM 9C – MOD-033

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

AGENDA ITEM 9D – EDST UPDATE

SPP staff, Kristie Brown, updated the group on the 2025 ITP Pass 5 due date reminders for EDST & MOD along with updates to the reference documents.

AGENDA ITEM 10 – DISCUSSION OF FUTURE MEETINGS

Brianna Haug, MDAG Vice-Chair, updated the group on upcoming meetings.

- a. RAD TF: December 20, 2023 (1:00 PM – 3:00 PM Central)
- b. MDAG Focus Group: Cancelled
 - i. Facilitate technical discussions
 - ii. MDAG changes (manual, schedule, etc) must be discussed in FG before being brought to MDAG
- c. TWG: January 2, 2024 - January 3, 2024 (9:00 AM Central begins)
- d. MDAG: January 18, 2024 (9:00 AM – 12:00 PM Central)

Please note that the MDAG Focus Group meetings will resume in January. If you have any items for discussion, please notify SPP Staff, Eric Sullivan. Also, all the 2024 MDAG meetings have been added on [SPP.org](https://www.spp.org). Please register if you have not already.

AGENDA ITEM 11 – SUMMARY OF ACTION ITEMS

Brianna Haug, MDAG Vice-Chair, reviewed the new action items from this meeting:

- SPP Staff, Brandon Hentschel, to work with the TWG secretary to schedule some time in an upcoming TWG meeting to discuss items relating to the Attachment AJ MDAG Manual Language change.

AGENDA ITEM 12 – ADJOURN

Brianna Haug, MDAG Vice-Chair, adjourned the meeting at 11:20 a.m. (CST)

Respectfully Submitted,

Lottie Jones
Secretary

Eric Sullivan
Secretary Assistant

Attachments

DEC14_Attach1- 1e. MDAG Meeting Agenda.docx

DEC14_Attach2 - 1c. MDAG Conference Call Attendance-12-14-2023

DEC14_Attach3- 1f. November 19, 2023, Meeting Minutes.docx

Assessment 1

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Spreadsheet

Assessment process located on Confluence before completing and submitting your spreadsheet
sppcorp.org/display/WG/MOPC#expand-AnnualAssessmentWGsAGs

Pay attention to the spreadsheet's formatting! The assessments must be the same across all groups. Be careful if you copy and paste throughout the spreadsheet. You need to "drag" any formulas to new rows and may need to adjust the cell format. Contact El or Kaye McCarty for assistance.

Enter the representative's name in A1 and group acronym in bottom 2 tabs.

Representative information

A. Enter the names of your rostered representatives in column A, beginning with your name (staff secretary) in row 7.

Use LAST NAME, FIRST NAME

B. Enter the company name for each of the rostered representatives in column B, beginning with "SPP" in row 7.

Use company names EXACTLY AS LISTED ON SPP.ORG: <https://www.spp.org/about-us/members-market-participants/>

C. For standing proxies, list the proxy's name and company and the company they're representing.

Example: Starnes, Heather (Healy Law Firm) proxy for Grotzinger, John | Missouri Joint Electric

Meeting details

A. Enter your meeting dates beginning in column C, row 1 and continue across the worksheet until all meeting dates are entered

B. Enter the actual duration for each meeting beginning in column c, row 2. Round to the nearest .5 hours.

C. Enter the actual number of votes taken per meeting beginning in column c, row 3. **Do not count** administrative votes such as votes to approve the agenda or adjourn the meeting. When counting consent votes, count one vote for each item under the consent topic. Do not count a consent vote as 1 if it includes multiple items.

D. Enter the total number of attendees for each meeting beginning in column c, row 4

E. Enter the meeting format for each meeting beginning in column c, row 5

Attendance at each meeting per representative

A. For yourself and each member note how the individual attended the meeting using the drop down for the cell. Options are virtual, in-person, proxy, absent or non-member. Non-member is to be used for those who were members for only part of the assessment period. If you have a member that joined or left the group during the assessment period, utilize the non-member option for all meetings in which they were not considered a rostered member of the group.

Survey worksheet

Demographic data

- A. Indicate Yes if the member is current and No if they are no longer a part of the group
- B. Enter the type of member for each representative in column D
- C. Enter the sector type for each representative in column E
- D. If a representative leaves mid assessment period add a red asterick in front of their name

**to indicate the status of your scope review in L8
nt Period in A2**

adsheet!

Do not copy, paste or insert rows because
it will change the row numbers in the formulas. Please

**Model Development
Advisory Group**

Meeting Date(s) 1/18/2024
 Meeting Length (hr) 2
 Number of Votes Taken 2
 Overall Attendance 64
 Meeting Format Virtual

| Name | Company | Attendance |
|---------------------------------|---|------------|
| Leticia Jones (Staff Secretary) | SPP | Virtual |
| John Turner (Chair) | Western Farmers Electric Power | Virtual |
| Brittany Hesse (Vice Chair) | Western Area Power Administration | Virtual |
| Alexa McHugh | Oklahoma Municipal Power Authority | Virtual |
| Dustin Birtz | Nebraska Public Power District | Virtual |
| Jason Shook | GDS Associates | Virtual |
| Jerry Bradshaw | City Utilities of Springfield | Virtual |
| Joak Knudsen | Midwest River Energy Services | Virtual |
| Joe Fultz | Grand River Dam Authority | Virtual |
| John Vora | Golden Spread Electric | Virtual |
| Liam Springham | Surfcoast Electric Power Corporation | Virtual |
| Frederic Blinkey | Basin Electric Power Cooperative | Virtual |
| Renee Miranda | Southwestern Public Service | Virtual |
| Ryan Baylinger | Energy | Virtual |
| Scott Kneibelt | American Electric Power | Virtual |
| Scott Schmitt | Arkansas Electric Cooperative Corporation | Virtual |
| Steve Holman | Oklahoma Public Power District | Virtual |
| Tyler Baxter | Com-Batt Power Cooperative | Virtual |
| Guests | | |
| Adam Murren | Burns & McDonnell | Virtual |
| Adam Krell | Oklahoma Gas and Electric Company | Virtual |
| Adam Schaeffer | CPED | Virtual |
| Ahbin Salehian | SPP | Virtual |
| Adam Schaeffer | CPED | Virtual |
| Ala Wadi | Liberty Utilities | Virtual |
| Amine Dhaoui | DNV | Virtual |
| Andrew Bera | Midwest River Energy Services | Virtual |
| Andrew Howard | Locust Electric System | Virtual |
| Aquillia Demontes | ITC | Virtual |
| Antonio Workneh GDS | GDS | Virtual |
| Antonio Barrera | Southwestern Public Service | Virtual |
| Arnie Sells | Nebraska Municipal Power Pool | Virtual |
| Aster Amahaeson | Nebraska Municipal Power Pool | Virtual |
| Ben Harwood | WAPA | Virtual |
| Bocca McCann | SPP | Virtual |
| Ben Mitchell | SPP | Virtual |
| Blake Poole | Energy | Virtual |
| Bobby Gray | Liberty Utilities | Virtual |
| Brandon Hestichal | SPP | Virtual |
| Brenda Harris | OCI | Virtual |
| Brian Johnson | ATP | Virtual |
| Bruce Keane | SPP | Virtual |
| Bruce Hall | Nebraska Municipal Power Pool | Virtual |
| Calvin Coates | Kansas Power Pool | Virtual |
| Casey Galles | SPP | Virtual |
| Caseandra Suber | ATP | Virtual |
| Chan Lee | Savion | Virtual |
| Charles Costello | Somers | Virtual |
| Cho Wang | American Electric Power | Virtual |
| Chris Colson | Western Area Power Administration | Virtual |
| Chris Davis | SPP | Virtual |
| Chris Gidlin | Ti State | Virtual |
| Chris Rich | Oklahoma Gas and Electric Company | Virtual |
| Clarence Campbell | SFS | Virtual |
| Clarin Womack | Burns & McDonnell | Virtual |
| Conner Sweet | City Utilities of Springfield | Virtual |
| Curtis Miller | Western Farmers Electric Power | Virtual |
| Dale Reinhold | Headwaters Utilities | Virtual |
| Damien Butrage | ATP | Virtual |
| Danielle Bora | Surfcoast Electric Power Corporation | Virtual |
| Danielle Lorenz | SPP | Virtual |
| Darwin Richards | SPP | Virtual |
| David Bromberg | Pulsar Street Technologies | Virtual |
| David Dubart | SPP | Virtual |
| David Mendez | Grand River Dam Authority | Virtual |
| David Zhong | American Electric Power | Virtual |
| Dea Edmondson | SPP | Virtual |
| Derek Brown | Energy | Virtual |
| Devon Peterson | National Grid Renewables | Virtual |
| Diago Toledo | Grand River Dam Authority | Virtual |
| Douglas Bowman | SPP | Virtual |
| Drew Parks | Grand River Dam Authority | Virtual |
| Donald Hargrove | Oklahoma Gas and Electric Company | Virtual |
| Dustin Meade | Liberty Utilities | Virtual |
| Dylan Fato | Ti State | Virtual |
| Dylan Hao | Energy | Virtual |
| Ebrahim Razaqi | American Electric Power | Virtual |
| Edie Watson | SPP | Virtual |
| Edin Terzic | Locust Electric System | Virtual |
| El Nyambara | Surfcoast Electric Power Corporation | Virtual |
| Elihu Salinas | IES | Virtual |
| Elton Cook | SPP | Virtual |
| Eric James | Oklahoma Public Power District | Virtual |
| Eric Sullivan | SPP | Virtual |
| Eric Carthey | SPP | Virtual |
| Eric Vance | Savion Electric | Virtual |
| Estevan Padilla | SPP | Virtual |
| Frank Frezza | Southwestern Public Service | Virtual |
| Garick Nelson | Western Area Power Administration | Virtual |
| Gar Retamer | Oklahoma Gas and Electric Company | Virtual |
| Garrett Nease | Energy | Virtual |
| Glen Halley | City Utilities of Springfield | Virtual |
| Gavin Woodson | Oklahoma Gas and Electric Company | Virtual |
| Hannah Mason | Light Source BP | Virtual |
| Harriet Walsh | Onond | Virtual |
| Heath Reider | SPP | Virtual |
| Humberto Branco | Savion | Virtual |
| James Dierkes | Savion Energy | Virtual |
| Jama Spinks | SPP | Virtual |
| Jason Morko | Nebraska Public Power District | Virtual |
| Jeff Knutsek | City Utilities of Springfield | Virtual |
| Jeff McDiarmid | SPP | Virtual |
| Jeff Pave | NextEra | Virtual |
| Jeffrey Taylor | ITC | Virtual |
| Jim Baumer | EPRI | Virtual |
| Jerad Ehrhidge | Oklahoma Gas and Electric Company | Virtual |
| Jeremy Severson | Basin Electric Power Cooperative | Virtual |
| Joe Williams | Western Farmers Electric Power | Virtual |
| Joe Huber | Basin Electric Power Cooperative | Virtual |
| Joe Senechal | Basin Electric Power Cooperative | Virtual |
| John Bonbars | City Utilities of Springfield | Virtual |
| John Mayhew | Oklahoma Public Power District | Virtual |
| John Vora | Golden Spread Electric | Virtual |
| John Varnell | Tanaka | Virtual |
| John Wilson | Southern Current LLC | Virtual |
| Jon Flarych | Ti State | Virtual |
| Jon Landford | Onond | Virtual |
| Jonah Montanery | Energy | Virtual |
| Jonathan Aun | East River | Virtual |
| Jordan Dillman | Western Farmers Electric Power | Virtual |
| Jose Cardona | EPRI | Virtual |
| Josh Houshjian | Arkansas Electric Cooperative Corporation | Virtual |
| Joshua Pilgram | SPP | Virtual |
| Justin Dugart | WAPA | Virtual |
| Juliano Freitas | SPP | Virtual |
| Justin Hill | 1890 and Company | Virtual |
| Kadum Brown | ATP | Virtual |
| Kalan Kelley | WFEC | Virtual |
| Kelsey Allen | SPP | Virtual |
| Kim Grogan | Energy | Virtual |
| Kristie Brown | SPP | Virtual |
| Kristen Darden | SPP | Virtual |
| Larry Brusseau | Com-Batt Power Cooperative | Virtual |
| Liz Gough | SPP | Virtual |
| Logan Janson | East River | Virtual |
| Loren Peterson | Minnesota | Virtual |
| Luke Zahner | Kipco | Virtual |
| Mac Cruz | Southwestern Public Service | Virtual |
| Mac Moor | Energy | Virtual |
| Margaret Kristian | National Grid Renewables | Virtual |
| Martin Green | American Electric Power | Virtual |
| Martin Mangold | Somers | Virtual |
| Mason Ferrara | SPP | Virtual |
| Matthew Alvarado | IES | Virtual |
| McKadey Kollam | Energy | Virtual |
| Malik Archambault | Enel | Virtual |
| Michael Bosman | City Utilities of Springfield | Virtual |
| Michael Roy | SPP | Virtual |
| Michael Ward | Somers | Virtual |
| Miles Swan | Oklahoma Public Power District | Virtual |
| Moses Belsch | GridSense | Virtual |
| Monika Soltygizadeh | SPP | Virtual |
| Nathan Davis | Liberty Utilities | Virtual |
| Nathan McNeil | Midwest Energy | Virtual |
| Nicholas Haselmann | Energy | Virtual |
| Nicole Hicks | WAPA | Virtual |
| Nitin Kulkarni | National Grid Renewables | Virtual |
| Neville Tolman | NextEra | Virtual |
| Neil Smith | Com-Batt Power Cooperative | Virtual |
| Nolan Kertis | SPP | Virtual |
| Palab Datta | Energy | Virtual |
| Paul Vok | Oklahoma Public Power District | Virtual |
| Peter Jones | Savion | Virtual |
| Phil Wicby | BEPC | Virtual |
| Pragati Pinar | Quantis Technology | Virtual |
| Rabib Rahman | Energy | Virtual |
| Ramon Espinola | Enel | Virtual |
| Richard Miner | Liberty Utilities | Virtual |
| Ryan Benton | Oklahoma Gas and Electric Company | Virtual |
| Ryan Schmitt | Midwest Energy | Virtual |
| Scott Holliday | SPP | Virtual |
| Scott Jordan | SPP | Virtual |
| Scott Miljn | Southwestern Public Administration | Virtual |
| Sath Guchan | DC Energy | Virtual |
| Shelini Gupta | Apex Clean Energy | Virtual |
| Shannon Mckens | SPP | Virtual |
| Shawn Gail | Kipco | Virtual |
| Shawn Satterwhite | Oklahoma Gas and Electric Company | Virtual |
| Shawn Mear | SPP | Virtual |
| Shijit Sanki Kumar | ATP | Virtual |
| Shobha Patel | Consultation | Virtual |
| Spencer Simpson | 1890 and Co | Virtual |
| Steve Hardsbeck | Oklahoma Gas and Electric Company | Virtual |
| Steve Hardy | Surfcoast Electric Power Corporation | Virtual |
| Steven Park | SPP | Virtual |
| Sunny Baham | Surfcoast Electric Power Corporation | Virtual |
| Tanner New | Surfcoast Electric Power Corporation | Virtual |

| | |
|--------------------|-----------------------------|
| Thomas Burns | SPP |
| Thao Brown | SPP |
| Timothy Sull | ITS |
| Todd Chatalikowski | EDF |
| Tom Baldu | Energy |
| Tom Mawhan | Omaha Public Power District |
| Tony Green | SPP |
| Walt Skumbe | Shumbe & Associates |
| William Hadden | SPP |
| Xiaoxu Wang | Enel |
| Yaremi Sakalla | Enel |
| Ying Yang | Duke Energy |
| Zach Anders | Burns & McDonnell |
| Zach Sabey | SPP |

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Model Development Advisory Group

August 2023 - August 2024

| Name | Company | Is Current Member? | Member Type | Sector | Present | Proxy | Absent | Percent Present |
|--------------------------------|----------------------------------|--------------------|-------------|--------|---------|-------|--------|-----------------|
| Alex Mucha | Oklahoma Municipal Power Aut | Yes | | | 1 | 0 | 0 | 100% |
| Brianna Haug (Vice Chair) | Western Area Power Administra | Yes | | | 1 | 0 | 0 | 100% |
| Dustin Betz | Nebraska Public Power District | Yes | | | 1 | 0 | 0 | 100% |
| Jason Shook | GDS Associates | Yes | | | 1 | 0 | 0 | 100% |
| Jerry Bradshaw | City Utilities of Springfield | Yes | | | 1 | 0 | 0 | 100% |
| Jesse Kreuzfeldt | Missouri River Energy Services | Yes | | | 1 | 0 | 0 | 100% |
| Joe Fultz | Grand River Dam Authority | Yes | | | 1 | 0 | 0 | 100% |
| John Turner (Chair) | Western Farmers Electric Power | Yes | | | 1 | 0 | 0 | 100% |
| John Vara | Golden Spread Electric | Yes | | | 1 | 0 | 0 | 100% |
| Liam Stringham | Sunflower Electric Power Corpora | Yes | | | 1 | 0 | 0 | 100% |
| Lottie Jones (Staff Secretary) | SPP | Yes | | | 1 | 0 | 0 | 100% |
| Preston Blinsky | Basin Electric Power Cooperativ | Yes | | | 1 | 0 | 0 | 100% |
| Reené Miranda | Southwestern Public Service | Yes | | | 1 | 0 | 0 | 100% |
| Ryan Baysinger | Evergy | Yes | | | 1 | 0 | 0 | 100% |
| Scott Rainbolt | American Electric Power | Yes | | | 1 | 0 | 0 | 100% |
| Scott Schichtl | Arkansas Electric Cooperative Co | Yes | | | 1 | 0 | 0 | 100% |
| Steve Hohman | Omaha Public Power District | Yes | | | 1 | 0 | 0 | 100% |
| Tyler Baxter | Corn Belt Power Cooperative | Yes | | | 1 | 0 | 0 | 100% |

| Annual Assessment Totals | |
|---------------------------------------|----|
| Average Length of Meetings (hrs) | 2 |
| Number of Votes Taken | 2 |
| Average Overall Attendance | 64 |
| Total Meetings this Assessment | 1 |
| Live | 0 |
| Teleconference | 1 |
| Scope Reviewed | |
| Transmission Owner(s) | 0 |
| Transmission User(s) | 0 |
| Director(s) | 0 |
| Investor Owned Utility | 0 |
| Cooperative | 0 |
| Municipal | 0 |
| State | 0 |
| Federal | 0 |
| Independent Power Producer / Marketer | 0 |
| Independent Transmission Company | 0 |
| Large Retail | 0 |
| Alt Power / Public Interest | 0 |
| Small Retail | 0 |

Model Development Advisory Group

| | |
|-----------------|----|
| Meeting Cost(s) | \$ |
|-----------------|----|

MAJOR INITIATIVES ADDRESSED BY THE GROUP

1

2

3

MAJOR PENDING INITIATIVES BEFORE THE GROUP

1

2

3



SOUTHWEST POWER POOL, INC.

MODEL DEVELOPMENT ADVISORY GROUP MEETING

January 18, 2024

Conference Call

9:00 a.m. – 12:00 p.m. (CST)

AGENDA

- 1. Administrative Items.....John Turner (10 mins)
 - a. Call to Order
 - b. Antitrust Statement
 - c. Attendance
 - d. Proxies
 - e. Agenda Review (**Approval Item**)
 - i. Acknowledgment for the posting of meeting materials
 - ii. *Agenda items may be taken out of order and could conclude earlier or later than estimated time.*
 - f. Previous November Meeting Minutes (**Approval Item**)
 - 2. Review of Past Action Items Eric Sullivan (5 mins)
 - 3. Area 550 Discussion (**Approval Item**)..... Brianna Haug (30 mins)
 - 4. MDAG Roster UpdateJohn Turner (15 mins)
 - 5. NMM UpdateMartin Mangold (45 mins)
 - 6. 2024 series Model Build/Application Updates
 - a. Powerflow Hugh Benfer (15 mins)
 - b. Short Circuit..... Eric Sullivan (5 mins)
 - c. MOD-033.....Eric Sullivan/Ben Mitchell (5 mins)
 - d. Dynamics Zach Sabey/Theo Brown (5 mins)
 - 7. Discussion of Future Meetings John Turner (5 mins)
- All meeting times are represented in the central time zone. Please register for all meetings via spp.org
- a. RAD TF: January 24, 2024 (1:00 PM – 3:00 PM)
 - b. MDAG Focus Group: January 23, 2024 (1:00 PM – 3:00 PM)
 - i. Facilitate technical discussions

Antitrust: SPP strictly prohibits use of participation in SPP activities as a forum for engaging in practices or communications that violate the antitrust laws. Please avoid discussion of topics or behavior that would result in anti-competitive behavior, including but not limited to, agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition.



- ii. MDAG changes (manual, schedule, etc) must be discussed in FG before being brought to MDAG
- c. TWG: January 30, 2024 - January 31, 2024 (9:00 AM begins)
- d. MDAG: February 15, 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](#)

- 8. Summary of Action Items..... John Turner (5 mins)
 - a. Agenda Review – additional comments request
- 9. Adjourn..... All

* The approval items denoted with "*" shall be jointly developed by PC, TP, and MDAG

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