

SOUTHWEST POWER POOL, INC.

MODEL DEVELOPMENT ADVISORY GROUP MEETING

November 16, 2023

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 October Meeting Minutes (**Approval Item**)
2. Review of Past Action Items Eric Sullivan (5 mins)
3. 2024 MDAG Dynamics Schedule (**Approval Item**)Zach Sabey/Theo Brown (20 mins)
4. Attachment AJ MDAG Manual Language..... Brandon Hentschel (20 mins)
5. Area 550 Discussion..... Brianna Haug (30 mins)
6. 2023 MDAG for 2024 TPL Stability Update
 - a. DynamicsZach Sabey/Theo Brown (10 mins)
7. 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 (15 mins)
 - d. EDST Update Kristie Brown (10 mins)
8. MMWG Update David Duhart/Zach Sabey (15 mins)
 - a. Fall Meeting
 - b. MMWG model approval

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.

- 9. Acceptable Model Working Group (AMWG) UpdateZach Sabey (20 mins)
- 10. 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: November 30, 2023 (1:00 PM – 3:00 PM)
- 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: November 28, 2023-November 29, 2023 (9:00 AM begins)
- d. MDAG: December 14, 2023 (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](#)

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

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

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

Enter the group'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

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**Model Development
Advisory Group**

Meeting Date(s) 11/16/2023
 Meeting Length (hrs) 3
 Number of Votes Taken 3
 Overall Attendance 58
 Meeting Format Virtual

Name	Company	Proxy
Lottie Jones (Staff Secretary)	SPP	Virtual
John Turner (Chair)	Western Farmers Electric Power	Virtual
Brianna Haug (Vice Chair)	Western Area Power Administration	Virtual
Alex Mucha	Oklahoma Municipal Power Authority	Virtual
Dustin Betz	Nebraska Public Power District	Virtual
Jason Shook	GDS Associates	Virtual
Jerry Bradshaw	City Utilities of Springfield	Virtual
Jesse Kreuzfeldt	Missouri River Energy Services	Virtual
Joe Fultz	Grand River Dam Authority	Virtual
John Vara	Golden Spread Electric	Virtual
Liam Stringham	Sunflower Electric Power Corporation	Virtual
Preston Blinsky	Basin Electric Power Cooperative	Virtual
Reené Miranda	Southwestern Public Service	Virtual
Ryan Baysinger	Evergy	Virtual
Scott Rainbolt	American Electric Power	Virtual
Scott Schichtl	Arkansas Electric Cooperative Corporation	Proxy
Steve Hohman	Omaha Public Power District	Virtual
Tyler Baxter	Com Belt Power Cooperative	Proxy
Guest Name	Company	
Adam Mummert	Burns & McDonnell	
Adam Nmili	Oklahoma Gas and Electric Company	Virtual
Afshin Salehian	SPP	
Adam Schaeffer	OPPD	
Ala Wadi	Liberty Utilities	Virtual
Amine Chenaf	DNV	
Andrew Berg	Missouri River Energy Services	
Andrew Howard	Lincoln Electric System	
Angeliki Dimopoulos	ITC	
Anteneh Workneh GDS	GDS	
Antonio Barrera	Southwestern Public Service	Virtual
Amin Sedic	Nebraska Municipal Power Pool	
Aster Amahatston	Nebraska Municipal Power Pool	
Ben Hammer	WAPA	
Becca McCann	SPP	
Ben Mitchell	SPP	Virtual
Blake Poole	Evergy	
Bobby Gray	Liberty Utilities	Virtual
Brandon Hentschel	SPP	Virtual
Brenda Harris	OKY	
Brian Johnson	AEP	
Brooke Keene	SPP	
Bruce Doll	Nebraska Municipal Power Pool	
Calvin Costes	Kansas Power Pool	Virtual
Casey Gathey	SPP	
Cassandra Stuber	AEP	Virtual
Charles Costello	Siemens	
Cho Wang	American Electric Power	
Chris Colson	Western Area Power Administration	
Chris Davis	SPP	
Chris Giden	Tri State	
Chris Rich	Oklahoma Gas and Electric Company	Virtual
Clarence Campbell	SIS	
Claire Vigesaa	Burns & McDonnell	
Conner Sweet	City Utilities of Springfield	Virtual
Curtis Miller	Western Farmers Electric Power	
Dale Reinhold	Hastings Utilities	
Damien Burbage	AECI	
Danielle Borg	Sunflower Electric Power Corporation	Virtual
Darian Richards	SPP	Virtual
David Bromberg	Pearl Street Technologies	
David Duhart	SPP	Virtual
David Mendoza	Grand River Dam Authority	
David Zhong	American Electric Power	Virtual
Dee Edmondson	SPP	Virtual
Derek Brown	Evergy	
Devon Pehrson	National Grid Renewables	
Diego Toledo	Grand River Dam Authority	
Douglas Bowman	SPP	
Dona Parks	Grand River Dam Authority	Virtual
Donald Hargrove	Oklahoma Gas and Electric Company	
Dustin Moeahr	Liberty Utilities	
Dylan Fate	Tri State	
Dylan Haas	Evergy	Virtual
Ebrahim Rezaei	American Electric Power	
Edie Watson	SPP	Virtual
Edin Tarzic	Lincoln Electric System	
Eli Nyambegera	Sunflower Electric Power Corporation	
Elijah Salinas	LES	Virtual
Ellen Cook	SPP	
Eric Jones	Omaha Public Power District	Virtual
Eric Sullivan	SPP	Virtual
Erin Cathey	SPP	
Erik Voice	Salem Electric	
Estevan Padilla	SPP	Virtual
Frank Eavala	Southwestern Public Service	
Garrick Nelson	Western Area Power Administration	
Gary Boerger	Oklahoma Gas and Electric Company	Virtual
Garvin Novotny	Evergy	
Glen Halley	City Utilities of Springfield	
Grace Bouziden	Oklahoma Gas and Electric Company	
Hannah Mason	Light Source BP	
Harriet Walsh	Orsted	
Hugh Renfer	SPP	Virtual
James Okenfuss	Savion Energy	
Jamie Spickes	SPP	Virtual
Jason Menke	Nebraska Public Power District	
Jeff Kottick	City Utilities of Springfield	
Jeff McDiarmid	SPP	
Jeff Plew	NextEra	
Jeffrey Taylor	ITC	
Jens Boemer	EPRI	
Jerad Ethridge	Oklahoma Gas and Electric Company	
Jeremy Severson	Basin Electric Power Cooperative	
Jesse Kreuzfeldt	Missouri River Energy Services	Virtual
Joe Williams	Western Farmers Electric Power	
Joel Huber	Basin Electric Power Cooperative	
Joey Schrepel	Basin Electric Power Cooperative	
John Boshears	City Utilities of Springfield	
John Mayhan	Omaha Public Power District	
John Vara	Golden Spread Electric	Virtual
John Varnell	Tenaska	
John Wilson	Southern Current LLC	Virtual
Jon Fidrych	Tri State	
Jon Langford	Orsted	
Jonah Montgomery	Evergy	
Jonathan Aus	East River	
Jordan Skillern	Western Farmers Electric Power	Virtual
Jose Cordova	EPRI	
Josh Hesselbein	Arkansas Electric Cooperative Corporation	Virtual
Joshua Pilgrim	SPP	
Josie Duggett	WAPA	
Juliano Freitas	SPP	
Justin Helt	1890 and Company	
Kadeem Brown	AEP	
Kalun Kelley	WFEC	
Kelsey Allen	SPP	
Kim Grogan	Evergy	
Kristie Brown	SPP	Virtual
Kristen Darden	SPP	
Larry Brusseaux	Com Belt Power Cooperative	Virtual
Liz Gephardt	SPP	
Logan Janssen	East River	
Logan Peterson	Minikota	
Luke Zahner	Kepco	
Mae Cruz	Southwestern Public Service	Virtual
Marc Moor	Evergy	
Margaret Kristian	National Grid Renewables	
Martin Green	American Electric Power	
Mason Favazza	SPP	
Matthew Alvarado	IUB	
McKady Kellam	Evergy	
Miah Archambault	Enel	Virtual
Michael Bowman	City Utilities of Springfield	
Michael Ray	SPP	
Mike Swan	Omaha Public Power District	Virtual
Moses Rotich	Gridliance	
Mostafa Sedighizadeh	SPP	Virtual
Nathan Davis	Liberty Utilities	
Nathan McNeil	Midwest Energy	
Nicholas Hoelteman	Evergy	
Nicole Hicks	WAPA	
Nitin Kushwaha	National Grid Renewables	
Neeya Toleman	NextEra	
Nel Smith	Com Belt Power Cooperative	
Nolan Fertig	SPP	
Pallab Datta	Evergy	Virtual
Paul Vovk	Omaha Public Power District	Virtual
Peter Jones	Savion	
Phil Westby	BEPC	
Prajakta Pawar	Quanta Technology	
Rakib Rahman	Evergy	
Ransome Egunjobi	Enel	
Richard Miner	Liberty Utilities	
Ryan Benton	Oklahoma Gas and Electric Company	
Ryan Schmitt	NMPP Energy	
Scott Holland	SWPA	
Scott Jordan	SPP	
Scott Mijia	Southwestern Power Administration	
Seth Cochran	DC Energy	
Shalini Gupta	Apex Clean Energy	
Shannon Mickens	SPP	
Shawn Gell	Kepco	
Shawna Satterwhite	Oklahoma Gas and Electric Company	
Sherril Maery	SPP	
Spencer Simpson	1890 and Co	
Steve Hardebeck	Oklahoma Gas and Electric Company	
Steve Purdy	SPP	
Steven Park	Sunflower Electric Power Corporation	
Sunny Raheem	SPP	
Tanner New	Sunflower Electric Power Corporation	Virtual
Thomas Burns	SPP	
Theo Brown	SPP	Virtual
Timothy Sell	ITS	Virtual
Todd Chwalkowski	EDF	
Tom Belshe	Evergy	
Tom Mayhan	Omaha Public Power District	
Tony Green	SPP	
Walt Shumate	Shumate & Associates	Virtual
William Holden	SPP	
Xiaoyu Wang	Enel	
Yasmin Sakalla	Enel	
Ying Yang	Duke Energy	
Zach Andera	Burns & McDonnell	
Zach Sabey	SPP	Virtual

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 Authority	Yes			0	1	0	100%
Brianna Haug (Vice Chair)	Western Area Power Administration	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 Corporation	Yes			1	0	0	100%
Lottie Jones (Staff Secretary)	SPP	Yes			1	0	0	100%
Preston Blinsky	Basin Electric Power Cooperative	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 Corporation	Yes			0	1	0	100%
Steve Hohman	Omaha Public Power District	Yes			1	0	0	100%
Tyler Baxter	Corn Belt Power Cooperative	Yes			0	1	0	100%

Annual Assessment Totals	
Average Length of Meetings (hrs)	3
Number of Votes Taken	3
Average Overall Attendance	58
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)	\$
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MAJOR INITIATIVES ADDRESSED BY THE GROUP

1

2

3

MAJOR PENDING INITIATIVES BEFORE THE GROUP

1

2

MDAG MINUTES
November 16, 2023

SOUTHWEST POWER POOL
MODEL DEVELOPMENT ADVISORY GROUP MEETING

November 16, 2023 9:00 am – 12:00 pm (CST)

Conference Call

SUMMARY OF MOTIONS AND ACTION ITEMS

Action Items:

- **No new items for this meeting**

Motions:

- **Motion: Jesse Kreutzfeldt motioned to approve the agenda as presented. John Vara seconded the motion. The group did not have any voice concerns during the discussion of the motion. The motion passed unanimously.**
- **Motion: Brianna Haug motioned to approve October 19, 2023, meeting minutes as presented. Preston Blinsky seconded the motion. John Turner, MDAG chair, made note of a typo in the agenda where September meeting was listed instead of October, and there were no other concerns voiced during the discussion of the motion. The motion passed unanimously.**
- **Motion: Steve Hohman motioned to approve the 2024 MDAG Dynamics schedule with some requested changes. Reene Miranda seconded the motion. The motion passed unanimously.**

MDAG MINUTES
November 16, 2023

SOUTHWEST POWER POOL
MODEL DEVELOPMENT ADVISORY GROUP MEETING

November 16, 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

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

MDAG MINUTES
November 16, 2023

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 Kreuzfeldt	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	Yes			Basin Electric Power Cooperative
Reené Miranda	Yes			Southwestern Public Service
Ryan Baysinger	Yes			Evergy
Scott Rainbolt	Yes			American Electric Power
Scott Schichtl	No	Josh Hesselbein	Yes	Arkansas Electric Cooperative Corporation
Steve Hohman	Yes			Omaha Public Power District
Tyler Baxter	No	Larry Brusseau	Yes	Corn Belt Power Cooperative

Material: NOV16_Attach2 - 1c. MDAG Conference Call Attendance-11-16-2023

MDAG MINUTES
November 16, 2023

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. There were a couple of questions from the group asking for clarification on agenda items #3 (MDAG Dynamics Schedule) and #4 (Attachment AJ MDAG Manual Language). Zach Sabey and Brandon Hentschel, SPP staff, provided explanations to clear up any concerns.

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

Material: NOV16_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: Brianna Haug motioned to approve October 19, 2023, meeting minutes as presented. Preston Blinsky seconded the motion. John Turner, MDAG chair, made note of a typo in the agenda where September meeting was listed instead of October, and there were no other concerns voiced during the discussion of the motion. The motion passed.

Material: NOV16_Attach3- 1f. October 19, 2023, Meeting Minutes.docx

MDAG MINUTES

November 16, 2023

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 – In Progress - SPP staff will continue discussions 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 – 2024 MDAG Dynamics Schedule (*Approval Item*)

SPP Staff, Zach Sabey, presented the 2024 MDAG Dynamics schedule. He pointed out the differences from the 2023 to 2024 schedule. There is a slight delay in the 2024 schedule due to the change in the Powerflow schedule, which pushes approval out from March to April. There were concerns from the group regarding the due date for the initial data update. The original date was very close to a due date for the Powerflow models. A recommendation was made to move the Dynamics initial due date from 2/12 to 2/20 to avoid the holiday of President's Day. Zach did not have any concerns with this update and would update the documentation after the meeting with the requested changes.

Motion: Steve Hohman motioned to approve the schedule with the requested changes. Reene Miranda seconded the motion. The motion passed unanimously.

AGENDA ITEM 4 – Attachment AJ MDAG Manual Language (*Approval Item*)

SPP Staff, Brandon Hentschel, presented the changes driven by FERC Order 841 to the MDAG manual for Attachment AJ. Many concerns and questions were voiced from the group regarding this item:

- Concerns over the timeline of implementation
- A need for input on the seasonal ratings, clarification on language and Fact 8
- Availability of seasonal or ambient conditions language

It was suggested that TWG may need to provide some perspective from a study process. Brandon also asked for feedback on a method for keeping up with the season ratings: OASIS, MOD or EDST. At the time, no comments were provided.

MDAG MINUTES

November 16, 2023

This item was originally up for approval. Due to the many concerns expressed by the group, there was no objection with removing from agenda as an approval item and more information will be provided at a future MDAG meeting. Approval will be tentatively rescheduled for the January meeting.

AGENDA ITEM 5 – AREA 550 DISCUSSION

WAPA Staff, Brianna Haug, presented information regarding Area 550. This initiative will standardize the numbering protocols for all generator owners that are not transmission owners/transmission planners. The group's main concern is that by implementing area 550 will not fully address the current issue of the Host TO being responsible for the merchant generators' data reviews. Another concern is that the Area 550 initiative may begin as optional and become required for all at a later date. One suggestion was to have an alternative solution where the Planning Coordinator develop some type of plan to encourage more involvement in the model build from the merchant GOs. At some point in the future, this will be a possible voting item.

AGENDA ITEM 6 – 2023 MDAG FOR 2024 TPL STABILITY UPDATE

SPP Staff, Zach Sabey, updated the group on the 2024 TPL Series MDAG Dynamic Model Build.

AGENDA ITEM 7 – 2024 SERIES MDAG MODEL BUILD/APPLICATION UPDATES

AGENDA ITEM 7A – POWERFLOW

SPP staff, Hugh Benfer, updated the group on the 2024 Series MDAG Powerflow model build and an issue with the MOD (Model on Demand) applicatoin² regarding ratings. Siemens have been contacted by SPP and will work with them on a patch solution to resolve the issue. The solution will be retrofitted back to June.

AGENDA ITEM 7B – SHORT CIRCUIT

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

AGENDA ITEM 7C – MOD-033

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

AGENDA ITEM 7D – EDST UPDATE

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

MDAG MINUTES
November 16, 2023

AGENDA ITEM 8 – MMWG UPDATE

SPP staff, David Duhart, had no new updates from the items presented during last month's MDAG meeting.

AGENDA ITEM 9 – ACCEPTABLE MODEL WORKING GROUP (AMWG) UPDATE

SPP staff, Zach Sabey, presented details of the new working group established by ERAG. A question was asked from the group regarding which regulatory body, NERC or FERC, will be responsible for developing and maintaining the model list. SPP Staff, Eddie Watson, clarified the responsibilities.

AGENDA ITEM 10 – DISCUSSION OF FUTURE MEETINGS

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

- a. RAD TF: November 30, 2023 (1:00 PM – 3:00 PM)
- 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: November 28, 2023-November 29, 2023 (9:00 AM begins)
- d. MDAG: December 14, 2023 (9:00 AM – 12:00 PM)

AGENDA ITEM 11 – SUMMARY OF ACTION ITEMS

Eric Sullivan, SPP Staff Secretary Proxy, indicated no new action items from this meeting.

AGENDA ITEM 12 – ADJOURN

John Turner, MDAG chair, adjourned the meeting at 11:23 a.m. (CST)

Respectfully Submitted,

Lottie Jones
Secretary

MDAG MINUTES
November 16, 2023

Eric Sullivan
Secretary Assistant

Attachments

NOV16_Attach1- 1e. MDAG Meeting Agenda.docx

NOV16_Attach2 - 1c. MDAG Conference Call Attendance-11-16-2023

NOV16_Attach3- 1f. October 19, 2023, Meeting Minutes.docx

MDAG MINUTES

October 19, 2023

SOUTHWEST POWER POOL MODEL DEVELOPMENT ADVISORY GROUP MEETING

October 19, 2023 9:00 am – 12:00 pm (CST)

Conference Call

SUMMARY OF MOTIONS AND ACTION ITEMS

Action Items:

- **None**

Motions:

- **Motion: Steve Hohman motioned to approve the amended agenda as presented. Reene Miranda seconded the motion. The group did not voice concerns during the discussion of the motion. The motion passed unanimously.**
- **Motion: Jerry Bradshaw motioned to approve September 21, 2023, meeting minutes as presented. John Vara seconded the motion. The group did not voice any additional concerns during the discussion of the motion. The motion passed.**

MDAG MINUTES

October 19, 2023

SOUTHWEST POWER POOL MODEL DEVELOPMENT ADVISORY GROUP MEETING

October 19, 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

SPP 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.

MDAG MINUTES

October 19, 2023

AGENDA ITEM 1C & 1D – ATTENDANCE AND PROXIES

The following members attended or were represented by proxy:

MDAG Member	Present	Proxy	Present	Company
Tyler Baxter	Yes			Corn Belt Power Cooperative
Jerry Bradshaw	Yes			City Utilities of Springfield
Dustin Betz	Yes	Jason Menke	Yes	Nebraska Public Power District
Preston Blinsky	Yes			Basin Electric Power Cooperative
Joe Fultz	Yes			Grand River Dam Authority
Brianna Haug	Yes			Western Area Power Administration, MDAG Vice-Chair
Steve Hohman	Yes			Omaha Public Power District
Reené Miranda	Yes			Southwestern Public Service
Alex Mucha	Yes			Oklahoma Municipal Power Authority
Scott Rainbolt	Yes			American Electric Power
Scott Schichtl	Yes			Arkansas Electric Cooperative Corporation
Jason Shook	No	Anteneh Workneh	Yes	GDS Associates
Liam Stringham	Yes			Sunflower Electric Power Corporation
John Turner	Yes			Western Farmers Electric Power, MDAG Chair
Lottie Jones	No	Eric Sullivan	Yes	Southwest Power Pool, Inc., MDAG Secretary
John Vara	Yes			Golden Spread Electric
Ryan Baysinger	Yes			Evergy
Jesse Kreutzfeldt	Yes			Missouri River Energy Services

Material: OCT19_Attach2 - 1c. MDAG Conference Call Attendance-10-19-2023

MDAG MINUTES

October 19, 2023

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: Steve Hohman motioned to approve the agenda as presented. Reene Miranda seconded the motion. The group did not voice concerns during the discussion of the motion. The motion passed unanimously.

Material: OCT19_Attach1- 1e. MDAG Meeting Agenda

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

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

Motion: Jerry Bradshaw motioned to approve September 19, 2023, meeting minutes as presented. John Vara seconded the motion. The group did not voice any additional concerns during the discussion of the motion. The motion passed.

Material: OCT19_Attach3- 1f. September 19, 2023, Meeting Minutes.docx

MDAG MINUTES

October 19, 2023

AGENDA ITEM 2 – REVIEW OF PAST ACTION ITEMS

Eric Sullivan discussed outstanding issues highlighted in red font, including the action items added from the last meeting. 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 – In Progress - SPP staff to follow up to have someone from SPP operations to discuss the 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 – COMPOSITE LOAD UPDATE

Marc Moor provided the group with an update on the Composite Load Model. The DLTF anticipates (at a future time) recommending MDAG Model Development Manual changes to require some load models have a CMLD associated to them for dynamic stability simulations. If anyone is interested in sending feedback, it should be directed to Marc Moor (Marcus.Moor@evergy.com) or Scott Jordan (sjordan@spp.org).

AGENDA ITEM 4 – NERC UPDATE

SPP staff, Shannon Mickens, provided a NERC Standards update. Areas of discussion were Project 2020-06 (Verification of Data and Models for Generators) and Project 2022-02 (Modification to TPL-001 and MOD-032). Any follow-up can be directed to Shannon at smickens@spp.org.

AGENDA ITEM 5 – FERC 841

SPP staff, Michael Ray, provided the group with updates on the FERC 841. He presented an overview regarding how storage can be registered and used in the Market.

AGENDA ITEM 6 – FOCUS GROUP UPDATES

AGENDA ITEM 6A – RAD TF

For the RAD Task Force, SPP staff, Darian Richards & David Duhart, updated the group on the wind representation, goals and challenges. There was a lengthy discussion regarding some of the items. This topic most likely will be added again to a future meeting for additional discussion.

AGENDA ITEM 7 – 2023 MDAG FOR 2024 TPL STABILITY UPDATE

MDAG MINUTES

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SPP Staff, Theo Brown, updated the group on the 2024 TPL Series MDAG Dynamic Model Build.

AGENDA ITEM 8 – 2024 SERIES MDAG MODEL BUILD/APPLICATION UPDATES

AGENDA ITEM 8A – POWERFLOW

SPP staff, Hugh Benfer, updated the group on the 2024 Series MDAG Powerflow model build.

AGENDA ITEM 8B – SHORT CIRCUIT

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

AGENDA ITEM 8C – MOD-033

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

AGENDA ITEM 8D – EDST UPDATE

SPP staff, Kristie Brown, updated the group on the 2025 ITP Pass 4 due date reminders for EDST.

AGENDA ITEM 9 – MMWG UPDATE

SPP staff, Hugh Benfer & David Duhart, updated the group on the MMWG Fall meeting and that the MMWG models were approved.

AGENDA ITEM 10 – DISCUSSION OF FUTURE MEETINGS

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

- a. RAD TF: November 30, 2023
- b. MDAG Focus Group: October 24, 2023 (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 Face-to-Face: October 31, 2023 (9:00 AM begins)
- d. Ambient Adjustment Ratings Implementation Task Force: November 13, 2023 (9:00AM 11:00AM)
- e. MDAG: November 16, 2023 (9:00 AM – 12:00 PM)

AGENDA ITEM 11 – SUMMARY OF ACTION ITEMS

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Eric discussed the action items from this meeting:

- **None for this meeting**

AGENDA ITEM 12 – ADJOURN

John Turner adjourned the meeting at 11:52 a.m. (CST)

Respectfully Submitted,

Lottie Jones
Secretary

Eric Sullivan
Secretary Assistant

Attachments

OCT19_Attach1- 1e. MDAG Meeting Agenda.docx

OCT19_Attach2 - 1c. MDAG Conference Call Attendance-10-19-2023

OCT19_Attach3- 1f. September 21, 2023, Meeting Minutes.docx