

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

January 23, 2025, 9:00 am – 12:00 pm (CST)

Conference Call

SUMMARY OF MOTIONS AND ACTION ITEMS

Action Items:

- ***Action Item: Bring the Unacceptable Model List and GlobalScape access item to the February meeting***
- ***Action Item: Bring the BP7400 language in the MOD matrix of the SPP Model Development Procedure Manual to the February MDAG meeting.***

Motions:

- **Motion: Jesse Kreutzfeldt motioned to approve the agenda as presented on the screen. Reese Miranda seconded the motion. The motion passed unanimously.**
- **Motion: John Vara motioned to approve the December 12th meeting minutes as shown on the screen. Nathan Davis seconded the motion. The motion passed unanimously.**
- **Motion: Nathan Davis motioned to approve the recommendation of Brianna Haug for chair of the MDAG for the 2025-2026 term. Preston Blinsky seconded the motion. The motion passed unanimously.**

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

January 23, 2025, 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 Interim Chair, Brianna Haug, called the meeting to order at 9:02 a.m. (CST) with Quorum. SPP Staff Secretary, Zach Sabey, 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	X			Oklahoma Municipal Power Authority
Brianna Haug	X			Western Area Power Administration, MDAG Interim Chair
Dustin Betz	X			Nebraska Public Power District
Jason Shook	X			GDS Associates
Jerry Bradshaw	X			City Utilities of Springfield
Jesse Kreuzfeldt	X			Missouri River Energy Services
Joe Fultz	X	Dona Parks	X	Grand River Dam Authority
John Vara	X			Golden Spread Electric
Liam Stringham	X			Sunflower Electric Power Corporation
Mike Swan	X			Omaha Public Power District
Nathan Davis	X			Liberty Utilities
Preston Blinsky	X			Basin Electric Power Cooperative
Reené Miranda	X			Southwestern Public Service
Ryan Baysinger				Evergy
Scott Rainbolt	X			American Electric Power
Scott Schichtl	X			Arkansas Electric Cooperative Corporation
Timothy Sell				ITC Holdings
Tyler Baxter	X	Neil Smith		Corn Belt Power Cooperative
Zach Sabey	X			Southwest Power Pool, Inc., MDAG Secretary

Material: JAN23_Attach2 - 1c. MDAG Conference Call Attendance.xlsx

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

Brianna Haug, MDAG Interim 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 two modifications: 1) for the month on the meeting minutes; 2) the addition of TATETF to the meeting list.

Motion: Jesse Kreutzfeldt motioned to approve the agenda as presented on the screen. Reene Miranda seconded the motion. The motion passed unanimously.

- ***Action Item: Bring the Unacceptable Model List and GlobalScape access item to the February meeting***

Material: JAN23_Attach1- 1e. MDAG Meeting Agenda.docx

AGENDA ITEM 1F – PREVIOUS DECEMBER 12TH, MEETING MINUTES (**APPROVAL ITEM**)

SPP Staff, Zach Sabey, asked the group if they had any proposed changes for the previous meeting minutes on December 12th, 2024.

Motion: John Vara motioned to approve the December 12th meeting minutes as shown on the screen. Nathan Davis seconded the motion. The motion passed unanimously.

Material: JAN23_Attach3- 1f. December 2024 Meeting Minutes.pdf

AGENDA ITEM 2 – REVIEW OF PAST ACTION ITEMS

SPP staff, Zach Sabey, walked the group through past action items:

- Item # 213 – Item was discussed in the 1/21 Focus Group meeting.
- Item # 214 – Waiting on AEP Staff for input before proceeding with more discussion in a future focus group meeting

AGENDA ITEM 3 – MDAG CHAIR UPDATE (**APPROVAL ITEM**)

SPP staff, Zach Sabey, informed MDAG of the two nominations for Brianna Haug to become the chair of the MDAG. Nominations for Vice-Chair will take place in February.

Motion: Nathan Davis motioned to approve the recommendation of Brianna Haug for chair of the MDAG for the 2025-2026 term. Preston Blinsky seconded the motion. The motion passed unanimously.

AGENDA ITEM 4 – 2026 ITP & CPP TRANSITION ASSESSMENT SCOPE & SCRIPT C3

SPP staff, Eddie Watson, presented the 2026 ITP & CPP Transition Assessment Scope that was approved on January 2nd at the joint TWG/ESWG/CPPTF meeting.

Brianna Haug asked when will the needs assessment be posted for 2025. Zach followed up with the SPP Transmission Planning group for the date. February 24 will be the date that the DPP window opens.

Reene Miranda asked about C3.5 Benchmarking and what is being benchmarked. The benchmarking consists of trying to align the Model Validation being done by MOD-033 and the ITP BR / MEM benchmarking items that are done annually.

Mike Swan asked about the availability of the B-GEM / T-GEM / L-GIM models. These models should be available for members. The L-GIM models will be the DISIS models. He also asked about generator modeling in the CPP process and when the resources will be added into the models.

Ala Wadi mentioned that there was a statement in the GI advisory group that only firm generation will be considered; however, it sounds like non-firm generation can be considered in the future as well. Eddie commented that all current and planned generation in the queue can be included.

AGENDA ITEM 5 – NERC UPDATES

SPP Staff, Shannon Mickens, gave an update on the NERC Standards relating to Dynamic Line Ratings, MOD-026, MOD-032, TPL-008, PRC-002/008/024/029/030 and IBR Initiatives for FERC Order 901 Milestone 3.

AGENDA ITEM 6 – BUSINESS PRACTICE 7400

WAPA Staff, Brianna Haug, gave the group an update on BP7400 by providing examples of projects and the process flow that those examples would follow.

Reene Miranda and Dustin Betz voiced concerns around being required to submit a MOD project, RMS ticket and the Transmission Owner Project Evaluation Process Request Form for items that are non-material modifications.

Mike Swan asked to verify that the next steps are to circle back to the manual language changes that were proposed previously.

Mike Swan asked if the projects that are issued out of the ITP/AQ/GIA processes should stay as active projects or committed to the base case. Hugh Benfer responded that they would be issued into the base case when they go in-service and can remain as projects in MOD until that date.

- ***Action Item: Bring the BP7400 language in the MOD matrix of the SPP Model Development Procedure Manual to the February MDAG meeting.***

AGENDA ITEM 7 – 2025 SERIES MODEL BUILD / APPLICATION UPDATE

AGENDA ITEM 7A – POWERFLOW

SPP Staff, Danielle Lorenz, presented an updated on the 2026 ITP BR model set.

Joe Fultz asked for clarification on Docucheck corrections.... when comparing exemptions and conditions, they didn't match. Request for SPP Staff to review prior to posting; Joe to send Hugh some examples to review

AGENDA ITEM 7B – SHORT CIRCUIT

SPP Staff, Jonah Lagrange, presented an update for the 2026 ITP Short Circuit model set.

AGENDA ITEM 7C – MOD-033

SPP Staff, Eric Sullivan, presented an update for the MOD-033 model process.

AGENDA ITEM 7D – DYNAMICS

SPP Staff, Theo Brown, presented an update on the 2025 MDAG Dynamic model set.

AGENDA ITEM 8 – MDAG FG UPDATE

SPP Staff, Kristie Brown, provided an update on the MDAG FG.

AGENDA ITEM 9 – SUMMARY OF ACTION ITEMS

SPP Staff, Zach Sabey, indicated the following new action item from this meeting.

- **Action Item: Bring the Unacceptable Model List and GlobalScape access item to the February meeting**
- **Action Item: Bring the BP7400 language in the MOD matrix of the SPP Model Development Procedure Manual to the February MDAG meeting.**

AGENDA ITEM 10 – DISCUSSION OF FUTURE MEETINGS

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

- a. Joint TWG / MDAG: February 11th, 2025 (9:00AM – 10:00AM)
- b. MDAG: February 27, 2025 (9:00 AM – 12:00 PM)
- c. MDAG Focus Group: February 18, 2025 (1:00 PM – 3:00 PM)
- d. TWG: January 27, 2025 (9:00 AM – 5:00 PM)
 - i. January 28, 2025 (9:00 AM – 5:00 PM)
- e. CPPTF: February 19, 2025 (9:00 AM – 4:00 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 11 – ADJOURN

Brianna Haug, MDAG Interim Chair, adjourned the meeting at 11:51 AM (CST)

Respectfully Submitted,

Zach Sabey
Staff Secretary

Kristie Brown
Secretary Assistant

Attachments

DEC12_Attach1- 1e. MDAG Meeting Agenda.docx

DEC12_Attach2 - 1c. MDAG Conference Call Attendance.xlsx

DEC12_Attach3- 1f. December 2024 Meeting Minutes.pdf

SOUTHWEST POWER POOL, INC.

MODEL DEVELOPMENT ADVISORY GROUP MEETING

January 23, 2025

Conference Call

9:00 a.m. – 12:00 p.m. (CST)

AGENDA

1. Administrative Items..... Brianna Haug (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 December Meeting Minutes (**Approval Item**)
2. Review of Past Action Items Zach Sabey (5 mins)
3. MDAG Chair Recommendation (**Approval Item**) Zach Sabey (10 mins)
4. 2026 ITP & CPP Transition Assessment Scope & SCRIPT C3 Eddie Watson (30 mins)
5. NERC Updates..... Shannon Mickens (30 mins)
6. Business Practice 7400 (RR452) Discussion Brianna Haug (30 mins)
7. 2025 series Model Build/Application Updates
 - a. Powerflow Danielle Lorenz / Hugh Benfer (10 mins)
 - b. Short Circuit Jacob Lagrange (5 mins)
 - c. MOD-033 Eric Sullivan (5 mins)
 - d. Dynamics Theo Brown (5 mins)
8. MDAG FG Update Kristie Brown (5 mins)
9. Summary of Action Items Zach Sabey (5 mins)
 - a. Agenda Review – additional comments request
10. Discussion of Future Meetings Brianna Haug (5 mins)

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.



All meeting times are represented in the central time zone. Please register for all meetings via spp.org

- a. Joint TWG / MDAG: February 11th, 2025 (9:00AM – 10:00AM)
- b. MDAG: February 27, 2025 (9:00 AM – 12:00 PM)
- c. MDAG Focus Group: February 18, 2025 (1:00 PM – 3:00 PM)
- d. TWG: January 27, 2025 (9:00 AM – 5:00 PM)
 - i. January 28, 2025 (9:00 AM – 5:00 PM)
- e. CPPTF: February 19, 2025 (9:00 AM – 4:00 PM)
- f. TATETF: January 28, 2025 (1:30-3:30 PM)

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11. Adjourn..... All

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

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.

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

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

Conference Call

SUMMARY OF MOTIONS AND ACTION ITEMS

Action Items:

- ***Action Item: SPP Staff to verify SLG faults can be run on the TPL dynamics cases***
- ***Action Item: SPP Staff to send out a link to the latest CPP Scope document and Technical document.***
- ***Action Item: SPP Staff to follow up with GI to provide an answer to MDAG on what the current process steps should be.***
- ***Action Item: SPP Staff to follow up on Evergy request related to impedance changes between planned and as-built values.***
- ***Action Item: WAPA staff to work on generating examples for TOPTE projects.***
- ***Action Item: AEP Staff to send in request DocuCode checks to be added. These checks would then be run through the FG***

Motions:

- **Motion: Scott Schichtl motioned to approve the agenda as presented on the screen. Reene Miranda seconded the motion. The motion passed unanimously.**
- **Motion: Nathan Davis motioned to approve the November 14th meeting minutes as shown on the screen. Alex Mucha seconded the motion. The motion passed unanimously.**
- **Motion: Mike Swan motioned to approve the 2024 MDAG for 2025 TPL Stability model set, contingent upon the two updates provided being applied to the cases. Reene Miranda seconded the motion. The motion passed unanimously.**
- **Motion: Jason Shook motioned to approve the updated 2025 MDAG / 2026 ITP schedule as shown. Ryan Baysinger seconded the motion. The motion passed unanimously.**

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

December 12, 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 Interim Chair, Brianna Haug, called the meeting to order at 9:01 a.m. (CST) with Quorum. SPP Staff Secretary, Zach Sabey, 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	X			Oklahoma Municipal Power Authority
Brianna Haug	X			Western Area Power Administration, MDAG Interim Chair
Dustin Betz	X			Nebraska Public Power District
Jason Shook	X			GDS Associates
Jerry Bradshaw	X			City Utilities of Springfield
Jesse Kreutzfeldt	X			Missouri River Energy Services
Joe Fultz				Grand River Dam Authority
John Vara		David Mendoza	X	Golden Spread Electric
Liam Stringham	X			Sunflower Electric Power Corporation
Mike Swan	X			Omaha Public Power District
Nathan Davis	X			Liberty Utilities
Preston Blinsky	X			Basin Electric Power Cooperative
Reené Miranda	X			Southwestern Public Service
Ryan Baysinger	X			Evergy
Scott Rainbolt	X			American Electric Power
Scott Schichtl	X			Arkansas Electric Cooperative Corporation
Timothy Sell	X			ITC Holdings
Tyler Baxter	X			Corn Belt Power Cooperative
Zach Sabey	X			Southwest Power Pool, Inc., MDAG Secretary

Material: DEC12_Attach2 - 1c. MDAG Conference Call Attendance.xlsx

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

Brianna Haug, MDAG Interim Chair, asked the group if they had a chance to review the agenda and if the group had any modifications to the agenda.

Motion: Scott Schichtl motioned to approve the agenda as presented on the screen. Reene Miranda seconded the motion. The motion passed unanimously.

Material: DEC12_Attach1- 1e. MDAG Meeting Agenda.docx

AGENDA ITEM 1F – PREVIOUS NOVEMBER 14TH, MEETING MINUTES (**APPROVAL ITEM**)

SPP Staff, Zach Sabey, asked the group if they had any proposed changes for the previous meeting minutes on November 14th, 2024.

Motion: Nathan Davis motioned to approve the November 14th meeting minutes as shown on the screen. Alex Mucha seconded the motion. The motion passed unanimously.

Material: DEC12_Attach3- 1f. November 2024 Meeting Minutes.pdf

AGENDA ITEM 2 – REVIEW OF PAST ACTION ITEMS

SPP staff, Zach Sabey, walked the group through past action items:

- Item # 213 - *FYAE wind dispatch inclusion into the MDAG Model Development Procedure Manual*: Manual language updates will be brought to MDAG FG at the January FG call.
- Item # 214 - *Unrealistic QMAX and QMIN*: SPP Staff met with Evergy and AEP to discuss issues noted. SPP will work on member outreach to GOs with Qmax set to 0. SPP working on updating DocuCheck automation to allow for D-curve with zero-value for Qmin/Qmax when Pgen=0.
 - David Zhong (AEP) - Conventional Generators in AEP's area have the QMAX reset to zero or some variable value. When running results, the voltages are off.
 - Scott Rainbolt (AEP) - Conventional Generators set to zero
 - Ryan Baysinger (Evergy) - When you start including dynamic capability curves and there is a value of zero.

AGENDA ITEM 3 – MDAG CHAIR UPDATE

SPP staff, Zach Sabey, informed MDAG of John Turners resignation from the MDAG Chair seat, effective immediately. A nomination window is open until January 17th.

AGENDA ITEM 4 – 2024 MDAG FOR 2025 TPL STABILITY DYNAMIC MODEL SET (APPROVAL ITEM)

SPP staff, Zach Sabey, presented the proposed 2025 TPL Dynamics Model set.

Reene Miranda asked if there was a possibility to submit post-processing style updates. Zach Sabey will post a post-processing folder with the approved model set.

Mike Swan asked if the ability to run a Single-Line-to-Ground (SLG) fault had been fixed in the cases. Zach Sabey stated that the issue was corrected in the September time-frame for the MDAG Dynamic model set but would also verify this to be the case.

MOTION: Mike Swan motioned to approve the 2024 MDAG for 2025 TPL Stability model set, contingent upon the two updates provided being applied to the cases. Reene Miranda seconded the motion. The motion passed unanimously.

Material: DEC12_Attach4 - 4. 2024 series MDAG Model Build_2025 TPL Recommendation.pptx

AGENDA ITEM 5 – 2025 MDAG / 2026 ITP SCHEDULE UPDATE (APPROVAL ITEM)

SPP Staff, John O'Dell, gave an update on the 2025 MDAG / 2026 ITP schedule.

MOTION: Jason Shook motioned to approve the updated 2025 MDAG / 2026 ITP schedule as shown. Ryan Baysinger seconded the motion. The motion passed unanimously.

Material: DEC12_Attach4 - 5. 5. 2025 MDAG 2026 ITP schedule update.pptx

AGENDA ITEM 6 – SCRIPT C3 UPDATE

SPP Staff, Eddie Watson, gave the group the latest update on SCRIPT C3.1 - C3.5. There was a question from the group for clarification on the expectation for MDAG for building the B-GEMs, T-GEMs, and L-GIMs. SPP Staff to build based off data provided from MDAG on the other existing models. The CPP Scope will provide the number of models that will be built.

- **Action Item: SPP Staff to send out a link to the latest CPP Scope document and Technical document.**

Material: 6. SCRIPT C3 Common Model Update_Updated based on 12-06-2024 CPPTF & 12-11-2024 TWG-ESWG.pptx

AGENDA ITEM 7 – RR452 – TO PROJECT EVALUATION PROCESS LANGUAGE CLARIFICATION

MDAG Interim Chair/WAPA Staff, Brianna Haug, presented information to the group regarding RR452.

Reene Miranda asked what process it would flow through if the TO is requesting to move the POI of a signed GIA – does this go back through GI or does it go through TOPTTE?

- **Action Item: SPP Staff to follow up with GI to provide an answer to MDAG on what the current process steps should be.**
- **Action Item: SPP Staff to follow up on Evergy request related to impedance changes between planned and as-built values.**

AGENDA ITEM 8 – QMAX / QMIN DOCUCHECK

AEP Staff, David Zhong, presented an update on the Qmax / Qmin checks in DocuCheck and the issues they have seen.

AEP staff to take the specific checks requested to the MDAG FG for review and development.

AGENDA ITEM 9 – 2025 SERIES MODEL BUILD / APPLICATION UPDATES

AGENDA ITEM 9A – POWERFLOW

SPP Staff, Eric Sullivan, presented an update for the 2026 ITP BR model set.

AGENDA ITEM 9B – SHORT CIRCUIT

SPP Staff, Eric Sullivan, presented an update for the 2026 ITP Short Circuit model set.

AGENDA ITEM 9C – MOD-033

SPP Staff, Eric Sullivan, presented an update for the MOD-033 model process and the Unacceptable Differences posting and review.

AGENDA ITEM 10 – MDAG FG UPDATE

Kristie Brown, SPP Staff, provided an update on the MDAG FG.

AGENDA ITEM 11 – SUMMARY OF ACTION ITEMS

Zach Sabey, SPP Staff, indicated the following new action item from this meeting.

- **Action Item: SPP Staff to verify SLG faults can be run on the TPL dynamics cases**
- **Action Item: SPP Staff to send out a link to the latest CPP Scope document and Technical document.**
- **Action Item: SPP Staff to follow up with GI to provide an answer to MDAG on what the current process steps should be.**
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- **Action Item: WAPA staff to work on generating examples for TOPTE projects.**
- **Action Item: AEP Staff to send in request DocuCode checks to be added. These checks would then be run through the FG**

AGENDA ITEM 12 – DISCUSSION OF FUTURE MEETINGS

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

- a. MDAG: December 12, 2024 (9:00 AM – 12:00 PM)
- b. MDAG Focus Group: No Focus Group Meeting for December
- c. AARITF: December 2, 2024 (9:00 AM – 11:00 AM)
- d. TATE TF: No Meeting for the Month of December
- e. TWG: December 10, 2024 (9:00 AM – 3:00 PM)
 - i. December 11, 2024 (9:00 AM – 3:00 PM)

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AGENDA ITEM 13 – ADJOURN

Brianna Haug, MDAG Interim Chair, adjourned the meeting at 11:53 AM (CST)

Respectfully Submitted,

Zach Sabey
Staff Secretary

Kristie Brown
Secretary Assistant

Attachments

DEC12_Attach1- 1e. MDAG Meeting Agenda.docx

DEC12_Attach2 - 1c. MDAG Conference Call Attendance.xlsx

DEC12_Attach3- 1f. November 2024 Meeting Minutes.pdf

DEC12_Attach4 - 4. 2024 series MDAG Model Build_2025 TPL Recommendation.pptx

DEC12_Attach5 - 5. 5. 2025 MDAG 2026 ITP schedule update.pptx

DEC12_Attach6 - 6. SCRIPT C3 Common Model Update_Updated based on 12-06-2024 CPPTF & 12-11-2024 TWG-ESWG.pptx



MDAG CHAIR 2025-2026

*Working together to responsibly and economically
keep the lights on today and in the future.*



SouthwestPowerPool



SPPorg



southwest-power-pool

RECOMMENDATION

- MDAG approve Brianna Haug as the recommendation for chair of the Model Development Advisory Group