



Interconnection Process Working Group (IPWG)

Conference Call & Webex

June 3, 2025

10:00 am to 1:35 pm ET / 9:00 am to 12:35 pm CT

Dial in and Webex information available at www.misoenergy.org

Minutes

1. Administrative Items (David Mindham)

a. Welcome and Roll Call

The meeting was called to order at 10:00am ET/9:00am CT.

Chair: David Mindham

Vice Chair: Angela Maiko

MISO Liaison: Kyle Trotter

Stakeholder Relations: Mandi McGirr

Participants:

Aaron Demuth, OTP
Aaron Martin, CMS
Abhilash Muthumani,
Tenaska
Abhishek , Brightnight
Abhishek Dinakar,
Savion
Abigail Reid, MGE
Adam Stern, New Leaf Energy
Addison Miller,
Recurrent
Alan, New Consulting
Alan Castillo, Monrreal
Alan Comnes,
Triple Oak
Alan Mok, Duke
Alex Fosnaugh,
Energyre
Alex Judson, Sun Hawk
Alex Kloiber, Cipco
Allie Koepplinger,
MI PSC
Allison Dever, Ampliform
Amal Mallavarapu,
Eniplenitude
Amanda Kastenschmidt, DPW
Amber Joyce, MDU
Amelia Arnold, MPSC
Amit Agrawal, ICF
Amrit Srivastava,
EPE Consulting
Ana Victoria Tarin,
JVLN
Andrew Ford, GDS
Andrew Grieve, Jupiter
Andrew Kienitz, MN Power
Anna Basimamovic, RPU
Annie Woodburn, Xcel
Anton Ptak, EDF

Apoorva Desai, Alliant
Aruna Ranaweera,
Hecate Energy
Asfand Yar Ali, Xcel
Ashank Shinha, Meppi
Bakhtawar Khan, Gabel
Barbara De Abreu,
Doral
Barton Norfleet,
MS PSC
Ben Dayman, MEC
Benjamin Scott, CMS
Betty Fung, Spearmint
Bil Donmez, Longroad
Bill Booth, Michael Best
Boris Gisin, PowerGem
Brad Arnold, Ameren
Brad Pierson, Waldren
Renewables
Brent Taylor, MN Power
Brian Giggee, MDU
Caleb Gemperlein,
Heelstone
Cara Adams,
Pearl Street
Carlos Cofino, PGR
Carlos Toledo, NIRA
Carolina Velasquez,
Balanced Rock
Carrie Rowland,
Swift Current
Carson Hemphill, MEC
Cassie Osterhoudt,
NewLeaf
Chad Craven, Savion
Chance Zajicek, PD46
Energy
Chandana Bommareddy,
Innergex

Chengyue Guo, ATC
Chris Elie, Duke
Chris Miller, FERC
Chris Norton , AMP
Chris Stolz, PGR
Renewables
Christian Stuewer, Great Bay
Renewables
Christina James, East Point
Energy
Christopher Elie, Duke
Christopher T Plante, WEC
Christos Ghionis, Gekterna
Cindy Guillot, Cleco
Cindy Hammarlund, CES
Clayton W. Robinson,
Cordelio
Cliff Franklin, Sunflower
Cody Anderson OTP, OTP
Cody Doll, NextEra
Corey Falgout, UrbanGrid
Curt Lyons, PowerSystem
Dan Alfred, CMS
Dan Stroh, Ameren
Daniel, Pathway Power
Daniel Clark Scout, Scout
Clean Energy
Dave Galarowicz, Alliant
Dave Harlan, Veriquiest
David Davis, Apex
David Haralson, KCE
David J Forcum, Duke
David Johnston, IURC
David Leventhal , AES
David Osterkamp, ITC
David Sapper , CGA
David Savage, IURC
David Ticknor, Res Group
David Zito, Gabel



Deb Lewis, RNR
 Egeineering
 Derek Mosolf, GRE
 Derek Snyder, OTP
 Derek Sunderman, Savion
 DeWayne Todd, Alcoa
 Dhruv Gupta, Solar Proponent
 Diana Vasquez, Deriva
 Energy
 Dillon Broughton, Timmons
 Dinesh Patil, ICF
 Dio, Pig Energy
 Drew Hagin, Azimuth
 Elena Melloni, Revamp
 Elias Fallon, Pearl Street
 Eric, Renewvia
 Eric Bryant, UrbanGrid
 Eric Hope, Leeward
 Eric Stephens, AMP
 Eric Thoms, Invenergy
 Erik Hanser, LARA
 Erik Winsand ATC, ATC
 Erin Chiari, Jupiter
 Erin Murphy, NextEra
 Ernesto Castro,
 Ocienergy
 Erron Raifsnider, ITC
 Ethan Chastain, HEPN
 Faizan Hajam, Zero-Emission
 Grid
 Farah Neha, Advantage
 Forrest Tingo,
 Lightsource
 Frederick Salvo, Baker
 Donelson
 G Hegde, Continuum Associates
 Ganesh Velumyllum, New Edge
 Gaurav Mehta, Peregrine
 Energy Solutions
 Greg Jekel, HEPN
 Haley Cook, Burns MCD
 Hasan Saeed, Tesla
 Heidi Ratz, Pattern
 Energy
 Hicham Khireddine,
 National Grid
 Hilary Gold, Entergy
 Humberto Branco, Rev
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 Hunter Burgett, Strata
 Clean Energy
 Hussein Ghitan, Qcells
 Ian Reichardt, Silicon
 Ranch Corp
 Ian Sharpe, Leeward
 Isaiah Carter, CMS
 Jacob Fritz, MEPPi
 Jacob Lampi, CIPCO

Jake Johnson, Vesper
 Energy
 Jamal Khudai, ATC
 James Thomas,
 PowerGEM
 Jason Harchick, Oriden
 Jason Hastings,
 Total Energies
 Jason Mazigian, Bepc
 Jay Liu, Exus
 Jaydeep Senjaliya, Ulteig
 Jeff Wettstein,
 Pearl Street
 Jefferson Heidelberger,
 Nira Energy
 Jenny Liu, Jupiter
 Jenny Xu, Zelestra
 Energy
 Jeremi Wofford, Ameren
 Jeremy S Jones,
 Entergy
 Jerry Martinez, Sol Systems
 Jessica Campbell, Pedal
 Steel Solar
 Jessica Willey, Xcel
 Jim Waight, Siemens
 Jodi Walters, CMPAS
 Joe Cottle, Nadara
 Joe Downie, Acciona
 Joe Price, Enel
 John Bott, IMPA
 John Jicha, MGE
 John Jones, R3
 Renewables
 John Liskey, Cubo
 John Thomasen, MGE
 Jon Langford, Orsted
 Jonathan Chi, Samsung
 Jonathan Pagnussat,
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 Jose Angel Sanz,
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 Jose Villarreal, Acciona
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 Josh Kinney, Hexagon
 Josh Tellier, ATC
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 Justin Stewart, Ameren
 Kalli Bruce, UrbanGrid
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 Kellen Kinard, Savion
 Kellie Lovan, KY PSC
 Ken Gavin, DTE
 Ken Kagy, Cfunet
 Kenneth Foladare, Tangiblinc
 Kevin Kilgallen, Avangrid

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 Matthew Jackson, FERC
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 Michael Ridenhour,
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 Michael Russ,
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 Michele Bruning, Xcel
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 Mike Dantzler, Ranger Power



Mike Dicks, HEPN
Mike Fischette, LBWL
Mike Gahimer,
Arevon Energy
Mike Green, Grenergyus
Mike Malguarnera,
BW Solar
Mike Schowalter,
Fresh Energy
Mike Tabrizi,
Zero-Emission Grid
Miles Larson, LSBP
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Neil Crandell, Atwell
Nick Schroeder, MGE
Nick Schwager, Atlantica
Nick Schwager, Elecnor
Nick Tenney, CMS
Nicolas Nielsen, PCR
Energy
Nilesh Gowalani,
NewProject Media
Nina Zheng, RWE
Nitin Kushwaha,
Geronimo Power
Nitin Kushwaha, National
Grid
Noel Augustine, SBE
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Noel Darce,
StonePigman
Orijit Ghoshal, Tract
Parker Adams, Heelstone
Paul Carlson, Nadara
Pavan sajja, Pattern
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Philip Zanco, Ocienergy
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Quinn Beckham, Key
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Radha Soorya, Bright
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Ryan McKeever, Husch
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Ryan Quint , Elevate
Ryan Snyder, CenterPoint
Ryan Wernette, WPSCI
Ryan Wilhelmus,
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Rylan Hanson, OTP
Rylie Power,
Hexagon Energy
Sailee Phase, Tract
Sam Bustillos, EPE - ER
Sam Roberts, TED
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Sam Wendt, MEC
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Idemitsu Renewables
Samruddhi, Eeplus
Sandeep Tadeppally, RWE
Sangeetha Rajasekeran,
Nira Energy
Sanjay Bhatia , Savion
Sarah Taylor, DTE
Sawyer McClure, WPSCI
Scott Novack, Birch Creek Dev
Seth, Renewvia
Seun Akeyo,
Shane, Birch Creek Dev
Shane O'Brien, Aypa
Shannon Dancier, Ulteig
Shawn Welch, Doral
Shelby Leisz, AES
Shilpa Toppo,
PowerGlobal
Shirsha Nandy, Hecate
Energy
Shivam Sharma, Alliant
Shukul Mazari, Savion
Simon Cherucheril, PGR
Renewables
Sirisha Tanneeru , ICF
Sky Goliber,
Gale Head Dev

Soma Soko, New Leaf
Sonny Nguyen, Cubico
Srijan Karim, MEC
Srinivasa N, ICF
Stephanie Chapa, DTE
Stephen Wendling, ATC
Steve Barna, New Edge
Power
Steve Davies, IURC
Steven Leovy, WPPI
Subhadarshi Sakar,
NextEra
Sudipto Bhowmik, Capital
Power
Sujeet Urwan, MRE
Sumit Mundade, Gale
Head Dev
Summer Fabus, EDP
Sunita Bodke, Eeplus
Tang, Lei, NextEra
Taylor Costes, IURC
Temujin Roach, EDF
Terri Gheckat, Entergy
Terry Jarrett, Healy Law
Thomas Chamberlain,
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Thomas George, X-Elio
Thomas Martinez, Entergy
Thomas McNailen,
Advantage Cap
Thomas Siegrist, SMXB
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Thompson Adu, Engie
TJ Cochran , Ameren
Tosin Omodayo, Origis
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Tracy Rolstad, Advantage
Renew
Trey Mayeux, Cleco
Tung Nguyen, NextEra
Tyler Bergman, CGA
Tyler Jorgenson, OTP
Vara Sajjanapu, Cubico
Victor Olorundv, Enbridge
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Vince Vandaveer, Ameren
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Wendy Anderson, MN
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Will McGowan, UrbanGrid
William Andrew Rice,
Entergy
William Buchanan, NextEra
Xavier Tyler, X-Elio
Xiaohuan Tan, Hitachi
Energy
Yaming Zhu, Siemens
Yash Vyas,



Yonas Demissie, 174
PowerGlobal
Zack Heidemann, MIPSC

Zach Farrar, Great Bay
Zach Fjestad, OTP

Zachary Callen, ICC

b. Review Agenda

The agenda was accepted as posted.

c. Review Meeting Minutes / Action Items

The minutes were accepted as posted.

Action Item	Owner	Date	Status
MISO requested feedback on Attachment GGG Improvements (PAC-2024-6) by May 7, 2025.	Stakeholder Relations	4/22/2025	Closed
MISO requested feedback on Improvements to Reduce Phase 3 Restudies (PAC-2023-1) by May 9, 2025.	Stakeholder Relations	4/22/2025	Closed
MISO requested feedback on MISO Generator Interconnection Workbook Verification (PAC-2025-2) by May 14, 2025.	Stakeholder Relations	4/22/2025	Closed

d. Review Management Plan

The management plan was reviewed.

2. Liaison Report (Kyle Trotter)

• **MISO Feedback Responses**

- **IPWG: Improvements to Reduce Phase 3 Restudies (PAC-2023-1) (20240422)** – MISO expects to have a Tariff filing of GIP 7.7 proposals in the summer of 2025 based on the proposed Tariff updates and further stakeholder feedback at the Planning Advisory Committee (PAC). Contact: Brady Mann
- **IPWG: Attachment GGG Improvements (PAC-2024-6) (20240422)** – MISO will finalize and publish a new BPM in Q3 and continue discussion of process improvements at the July 22 IPWG. Contact: Simon Guo

• **Generator Interconnection Queue Improvements (PAC-2023-1)**

- **Queue Cap and Update for DPP 2025** – The application deadline for DPP 2025 is scheduled for September 26, 2025, with the planned kickoff set for January 5, 2026. Contact: Aneta Godbole
- **Expedited Resource Addition Study (ERAS) [ER25-1674]** – FERC rejected the ERAS filing without prejudice and is encouraging MISO to refile with suggested revisions. MISO is reviewing the Commission's decision and will continue to engage with stakeholders to develop a revised filing, targeted by June 6, 2025. This item can be followed at the PAC. Contact: Sydney Cooper
- **Initial Commercial Operations Date (CODs) in GIAs** – MISO filed a proposal with FERC [ER25-1758-000] on March 25, 2025, and it was accepted on May 22, 2025, with an effective date of May 25, 2025, to revise section 4.4.4 of Attachment X. MISO confirmed the GIA process is the same for surplus, replacement, and DPP. This change in the proposal allows Transmission Owners (TOs) to extend in-service dates by up to 2 years during original GIA negotiations and ensures a 180-calendar day trial operation period is available. Contact: Brady Mann

➡ Post Only

√ Potential Voting Item

^ Feedback Request

* Verbal Report



- **JTIQ & LRTP 2.1 Integration into DPP 2023** – MISO expects to complete BPM updates to integrate LRTP 2.1 into DPP 2023 before the scheduled DPP 2023 kick off. MISO is filing Tariff and JOA changes to allow earlier JTIQ integration into DPP 2023. Contact: Sarah Nieman
- **Sharing and Coordinating MTEP and DPP to Accommodate Large Loads (PAC-2024-7)** – MISO agrees with proposal to add specific language to allow spot load additions to be utilized as mitigations per section 6.1.1.1 of BPM-015. This issue can be followed at the Planning Subcommittee (PSC). Contact: Ryan Westphal
- **New Generator Interconnection Application Portal** – A new Generator Interconnection Application Portal is coming later this year and will be accessed through the [MISO Help Center](#). Contact: Rob Lamoureux
- **Upcoming Events/Workshops & Announcements**
 - FERC Order 881 Coordination Workshop (Closed) – June 17, July 21, Contact: Brian Kiefer
 - Customer Readiness Symposium – June 25, Contact: [MISO Help Center](#).
 - Futures Redesign Workshop – Jun 26, Jul 25, Aug 29, Sep 24, Oct 29, Contacts: RaeLynn Asah and Christina Drake
 - Generator Interconnection Queue Process Workshop – July 23, Contact: Rob Lamoureux
 - MISO Transmission Expansion Planning (MTEP) Workshop – July 3, Contacts: Jeremy Bennett and Casey Sobecks

3. MISO Posted Items ➡ (Kyle Trotter)

a. FERC Status Report

- b. **Definitive Planning Phase (DPP) Study Cycle Update** – *Update: MISO posted an updated DPP Cycle Schedule to the Generation Interconnection Queue section of the MISO website.*

4. Inverter Based Resource (IBR) Performance, Modeling, and Conformance (PAC-2024-2)

a. Proposed IBR modeling requirements^ (Alan Urban)

MISO proposed IBR modeling requirements. MISO shared that FERC, NERC, and MISO have each published materials either directing or recommending efforts to address model quality issues affecting reliability. MISO proposed requirements and a process to test and benchmark dynamics models used in the interconnection process (to become a new BPM-015 Appendix). A draft BPM-015 Appendix G is posted with June IPWG meeting materials.

MISO explained that reliability events point to modeling deficiencies that require industry attention. FERC and NERC is placing increasing focus on the need for accurate models. MISO's Reliability Attributes work identified IBR modeling improvements as a needed capability to perform the necessary stability analysis. The scope of proposed modeling requirements focus on plant-level dynamic responses during the interconnection study phase. To meet evolving reliability needs, MISO proposed requiring a "modeling package" upon interconnection request.

MISO explained model requirements contain general provisions related to usability, model topology, and file packaging. MISO proposed a set of tests intended to evaluate the highest risk dynamic performance requirements. The proposed requirements include



model documentation, attestations, and a test report. MISO is seeking input from stakeholders to define IBR modeling requirements, with the goal of finalizing requirements by November 2025.

MISO is not proposing a change to model usage. MISO confirmed that Order 2023 will require all three types of models. MISO shared it will provide an implementation plan at the July IPWG. MISO confirmed the ICs will perform the test and deliver the packages – including any time there is a change. UDMs would be included in DPP cycle. The group discussed benchmarking at the interconnection and post-commission validation testing. MISO was asked to provide examples of discrepancies, evidence (and detail) of where the TSAT UDM models are required, and scripts to help evaluate.

Next Steps

	Date	Objective
IPWG	June 3	Describe need and proposed requirements [Feedback] (30-45 min)
	July 22	Share revised requirements and proposed implementation plan [Feedback]
	September 3	Slippage (post only or present final proposal to go to PAC)
PAC	October 8	Present requirements and implementation plan [Feedback]
	November 19	Respond to stakeholder feedback

MISO requested feedback on **Recommended IBR Modeling Requirements (PAC-2024-2)** by June 17, 2025.

b. **Phasor Measurement Unit (PMU) Data Streaming^ (Brian Kiefer)**

MISO proposed to add a MISO standard for streaming synchrophasor data from new interconnections for BES units. New generation resources are rapidly changing traditional grid performance and dynamics, highlighted by the recent events in Europe. MISO is an outlier amongst its industry peers in having no streaming PMU requirements for new facilities in the footprint. MISO currently has a basic synchrophasor system today and mounting evidence combined with projected resource state is pointing to the importance of increased grid dynamics monitoring.

MISO explained what synchrophasor data is (time synchronized) and reviewed PMU requirements at other Reliability Coordinators. There is currently no standards for streaming PMU data. MISO would like to have streaming PMU data from all new BES generating facilities. MISO current line of thinking is to update the GIA to require the installation of PMUs at the Point-of-Interconnection (POI) for all new BES generating facilities. Data will have to be streamed minimally at 30 samples / sec and adhere to MISO’s PMU integration requirements., technical details will go in a BPM.

MISO explained data will either be streamed to the POI Transmission Operator if they have a Phasor Data Concentrator, or directly to MISO over the member WAN. MISO is seeking input from stakeholders to define PMU requirements, with the goal of filing proposed GIA changes by the end of the year.



Next Steps

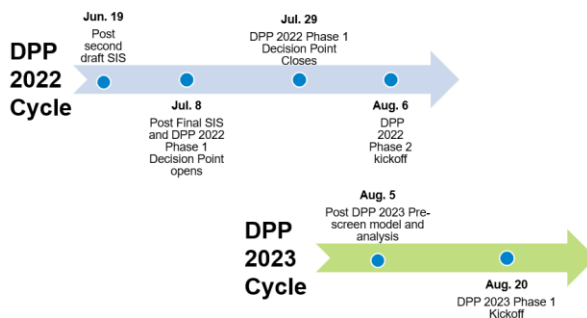
	Date	Objective
IPWG	June 3	Describe need and proposed requirements [Feedback]
	July 22	Share and discuss feedback from June meeting
	September 3	Present final proposal and GIA language that's going to PAC [Feedback]
PAC	October 8	Present requirements and implementation plan [Feedback]
	November 19	Respond to stakeholder feedback
	End of year	File proposed GIA changes

MISO requested feedback on **Phasor Measurement Unit (PMU) Data Streaming (PAC-2024-2)** by June 16, 2025.

5. SUGAR Implementation/DPP 2022 (Ryan Westphal)

MISO updated stakeholders on DPP 2022 cycle progress and cycle feedback. MISO received significant feedback on the draft System Impact Study (SIS) posted May 6, 2025. The next draft posting will incorporate corrections as necessary. MISO anticipates the posting date for the next draft SIS report will be on June 19, 2025. The final SIS and Decision Point 1 start is anticipated July 8, 2025. MISO is not requesting any additional feedback.

The DPP 2022 Phase 1 updated schedule will allow time to incorporate feedback and post another draft SIS.

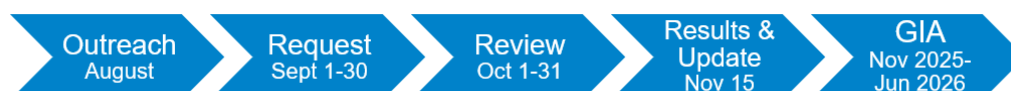


The *MISO Transmission Mitigation Selection and Cost Estimation Approach Whitepaper* is posted on the Generation Interconnection page of the MISO website (Planning > Resource Utilization Generator Interconnection Studies and Procedures > DPP Mitigation).

6. MISO Generator Interconnection Service Workbook Verification (PAC-2025-2) (Sam Hipple)

MISO plans to finalize the process for updating the MISO Generator Interconnection (GI) service workbook. MISO will open a one-time feedback window for legacy units to request corrections. MISO will review requests, and approved corrections will be memorialized in a pro forma GIA Stakeholder feedback supported the proposal, but expressed concerned regarding the treatment of NRIS (Local). MISO provided the background and impact of this issue.

GI Workbook Corrections Process



➡ Post Only

√ Potential Voting Item

^ Feedback Request

* Verbal Report



MISO will open a one-time “GI Workbook Correction Request” window. Legacy units without a MISO GIA may submit requests to correct existing GI Workbook values (ERIS). MISO will review individually to determine if requested corrections are valid. MISO will inform Generators of determinations. The GI Workbook will be updated with new values. Generators will be required to file a pro forma MISO GIA.

MISO Feedback Response - IPWG: Generator Interconnection Service Workbook

Verification (PAC-2025-2) (20240422) - MISO recognizes the intent of NRIS (Local) aligns with ERIS + Local NITS. MISO will convert all NRIS (Local) values in the GI Workbook to ERIS, and NITS/PTP TSR will continue to use the MECT as the system of record. MISO agrees to retain an internal record of NRIS (Local) values. MISO clarified downstream modeling and queue impacts. MISO will bring a final GI Workbook Verification proposal to the PAC.

Next Steps

June 3: Final Proposal presented to IPWG
July 16: PAC w/ feedback request
Aug 27: PAC Final presentation
Sept 1 to Set 30: Corrections request period
Oct 1 to Oct 31: Verification period
Nov 1 to Nov 15: Results notification period
Nov 15: Final GI Workbook posted
Nov 16 to Dec 15: GIA data submission period
June 2026: Confirm all required pro forma GIAs executed

MISO clarified there is no local NRIS designation in the MECT, and the Resource Adequacy team will validate any generators with local NRIS have firm transmission service in order to qualify for the Planning Reserve Auction. MISO agreed to keep an internal record of local NRIS for reference, and would merge local NRIS amounts into ERIS service. Stakeholders expressed support for the workbook update but have concerns regarding local NRIS treatment.

7. MISO-AECI Joint Planning Agreement^ (Liang Qi)

Request feedback on draft agreement

MISO formalized a planning coordination process with Associated Electric Cooperative, Inc (AECI). The Joint Planning Agreement (JPA) is driven by Order 2023 and MISO’s Expedited Resource Addition Study (ERAS) process. The focus is on study coordination for interconnection requests in MISO DPP/ERAS and AECI GI queue. MISO is tentatively planning a FERC filing in September 2025. MISO discussed the MISO-AECI Joint Planning Agreement (JPA) relative queue position, scope, timelines, study and network upgrade agreements, transition plan. A Draft MISO-AECI Joint Planning Agreement is posted with June IPWG meeting materials.

The group discussed AECI criteria on project selection for stability analysis. MISO does not have the information, but opined it’s likely based information such as project proximity, MW size, etc. Stakeholders inquired if AECI or MISO look at a potential restudy if significant change in PJM/SPP queue generation. MISO clarified it will need to be determined on a case-by-case basis, and ICs are welcome to ask the questions when MISO post AECI report for comment. The



group discussed the AECI interim study methodology. MISO encouraged stakeholders to submit questions with feedback submissions.

Next Steps

- MISO and AECI Legal and Management Reviews
- Feedback Request at June 3 IPWG
- Present to July 16 PAC
- Tentative FERC Filing: September 2025
- Expected Effective Date: 60 days from FERC filing

MISO requested feedback on **MISO-AECI Joint Planning Agreement Draft** by June 20, 2025.

8. New Business (All)

None

9. Action Items (Mandi McGirr)

Action Item	Owner	Date	Status
MISO requested feedback on Recommended IBR Modeling Requirements (PAC-2024-2) by June 17, 2025.	Stakeholder Relations	6/3/2025	Closed
MISO requested feedback on Phasor Measurement Unit (PMU) Data Streaming (PAC-2024-2) by June 17, 2025.	Stakeholder Relations	6/3/2025	Closed
MISO requested feedback on MISO-AECI Joint Planning Agreement Draft by June 20, 2025.	Stakeholder Relations	6/3/2025	Closed

10. Adjourn

Meeting adjourned at 1:13 pm ET/12:13 pm CT.

Next Meeting: July 22, 2025