

Operating Committee
PJM Conference & Training Center, Audubon, PA
June 9, 2022
9:00 a.m. – 2:00 p.m. EDT

**Operator assisted phone lines will be opened 30 minutes prior to the start of the meeting. Due to the high volume of remote participation, stakeholders are asked to connect early to allow additional time for operator queue processing.*

Administration

1. Jeff McLaughlin, PJM, provided announcements; reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation, and the WebEx Participant Identification Requirement.

Vince Stefanowicz, PJM, provided updates on eDART Data Requests, including changes to the bi-weekly data request, a new CEJA-related Data Request, and a reminder about the ongoing Cold Weather Operating Limit Data Request.

- a. Reviewed and approved draft minutes from the May 12th OC meeting. **The Committee approved the draft minutes from the May 12, 2022 Operating Committee meeting with 0 objections and 0 abstentions.**
- b. Reviewed of the OC work plan.
- c. Amanda Egan, PJM reviewed an upcoming change to PJM's Voting Application which will go-live on June 15th.

Review of Operations

2. Review of Operating Metrics
Stephanie Schwarz, PJM, reviewed the May 2022 PJM operating metrics slides. Metrics included PJM's load forecast error, BAAL performance, and transmission / generation outage statistics.
3. Security Update
Steve McElwee, PJM, provided a security briefing.

Endorsements/Approvals

4. Manual 01: Control Center and Data Exchange Requirements
Jack O'Neill, PJM, reviewed conforming changes to Manual 01: Control Center and Data Exchange Requirements as a part of the Load Management Testing Requirements Issue Charge and Problem Statement.
[Load Management Testing Requirements](#)
The Operating Committee endorsed the changes to Manual 01 with 0 objections and 0 abstentions.

First Reading

5. Internal NITS Process

Susan McGill, PJM, reviewed a proposed Issue Charge and Problem Statement that will clarify and enhance the processes related to internal Network Integration Transmission Service (NITS).

The Operating Committee will be asked to approve the Issue Charge at its next meeting.

6. Max Emergency Changes for Resource Limitation Reporting

a) Chris Pulong, PJM, presented a first read of Package A addressing the Max Emergency Changes for Resource Limitation Reporting matrix as a part of the Consensus Based Issue Resolution Lite process.

b) Joel Luna, Monitoring Analytics, presented a first read of Package B addressing the Max Emergency Changes for Resource Limitation Reporting matrix as a part of the Consensus Based Issue Resolution Lite process.

The Operating Committee will be asked to endorse these proposals at its next meeting.

[Issue Tracking: Max Emergency Changes for Resource Limitation Reporting](#)

6A. Manual 14D: Generator Operational Requirements

Dave Egan, PJM, reviewed changes to Manual 14D: Generator Operational Requirements as a part of the Deactivation Analysis Period quick fix process.

The Operating Committee will be asked to endorse these changes at its next meeting.

[Deactivation Analysis Period](#)

Additional Items

7. Upcoming Filing Related to EPA Proposed Rule

Gary Helm, PJM, provided stakeholders with an update about PJM's intent to file comments in response to the Environmental Protection Agency's proposed rule on the Federal Implementation Plan Addressing Regional Ozone Transport for the 2015 Ozone National Ambient Air Quality Standard regarding emission of nitrogen oxides from generating units. (Docket EPA-HQ-OAR-2021-0668)

8. Managing Transmission Line Ratings Order No. 881 Compliance Filing (RM20-16-000) Update

David Hislop, PJM, and Bilge Derin, PJM, provided an informational update regarding PJM's FERC Order No. 881 compliance efforts relating to ambient adjusted ratings. Although subject to continued discussion and revision, PJM has also posted a draft of the proposed Tariff language that will be filed as part of PJM's July 12, 2022 Order No. 881 compliance filing.

[Order 881](#)

9. PPL Dynamic Line Rating Implementation Update

Dave Hislop, PJM, provided a verbal update on the implementation of the PPL Dynamic Line Rating. A summary of the update has been posted with the June OC meeting materials.

10. Synchronous Reserve Event Actions and Expectations Update

Ilyana Dropkin, PJM, provided an update on the SRDTF activities.

[SRDTF Website](#)

11. Regulation Performance Update
Ilyana Dropkin, PJM, provided an update on PJM regulation market performance.
12. Primary Frequency Response Update
Ross Kelly, PJM, provided an update on PJM primary frequency response performance.
13. Synchronous Reserve Update
~~— Dave Kimmel, PJM, will provide a review of recent synchronous reserve performance.~~
This item was moved to the Informational Only Postings section.
14. Reliability Compliance Update
Becky Davis, PJM, provided an abbreviated update on NERC, SERC, RF, and NAESB standards, and other pertinent regulatory and compliance information. The update was abbreviated in the interest of time, and as a result, an updated slide deck was posted to reflect additional detail for the topics that were not verbally presented.
15. Outage Coordination
Paul McGlynn, PJM, provided an update on the approach and timeline for working the outage coordination Issue Charge approved at the May OC meeting.

Working Items

16. Renewable Dispatch
Janell Fabiano, PJM, facilitated a discussion to identify solution options and review solution packages on the Renewable Dispatch matrix as part of the Consensus Based Issue Resolution process.
[Issue Tracking: Renewable Dispatch](#)

IROL-CIP Cost Recovery
First reading of the IROL-CIP Cost Recovery solution package(s) was deferred until the July OC meeting.

Informational Only Postings

17. System Operations Subcommittee (SOS)
Donnie Bielak, PJM, provided a summary of the most recent SOS meeting.
13. Synchronous Reserve Update
Dave Kimmel, PJM, provided a review of recent synchronous reserve performance.

Attendance

| Last Name | First Name | Company | Sector |
|------------------------|------------|--|--------------------|
| McGlynn (Chair) | Paul | PJM Interconnection | None |
| McLaughlin (Secretary) | Jeffrey | PJM Interconnection | None |
| Abdur-Rahman | Muhsin | ABB Enterprise Software Inc. | None |
| Advena | Chris | PJM Interconnection | None |
| Aguilar | Fabiano | Storm Power, LLC | Other Supplier |
| Anastasio | Elizabeth | PJM Interconnection | None |
| Anders | David | PJM Interconnection | None |
| Baker | Jeff | Duke Energy Ohio, Inc. | Transmission Owner |
| Barker | Jason | Constellation Energy Generation, LLC | Generation Owner |
| Barnett | Paul | Silver Run Electric, LLC | Transmission Owner |
| Beblo | Olivia | | |
| Benchek | Jim | American Transmission Systems, Inc. | Transmission Owner |
| Bennett | Dan | PJM Interconnection | None |
| Berton | Tyler | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Bielak | Donnie | PJM Interconnection | None |
| Bleiweis | Bruce | DC Energy LLC | Other Supplier |
| Bowring | Joe | Monitoring Analytics | None |
| Boyle | Glen | PJM Interconnection | None |
| Braerman | Ken | Baltimore Gas and Electric Company | Transmission Owner |
| Brodbeck | John | EDP Renewables North America, LLC | Generation Owner |
| Callaghan | Chris | PJM Interconnection | None |
| Callis | Joe | PJM Interconnection | None |
| Capra | Carlo | ITC Interconnection, LLC | Transmission Owner |
| Carroll | Rebecca | PJM Interconnection | None |
| Chang | Sean | Shell Energy North America (US), L.P. | Other Supplier |
| Circelli | Roseanne | Public Service Electric & Gas Company | Transmission Owner |
| Clark | Alden | DC Energy LLC | Other Supplier |
| Colaesi | Chandra | Cpower Energy Management | None |
| Corash | Richard | PSEG Energy Resources & Trade LLC | Other Supplier |

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| Dadourian | John | Monitoring Analytics | None |
| Dajewski | Paul | PJM Interconnection | None |
| Dantonio | Phil | PJM Interconnection | None |
| Davis | Elizabeth | PJM Interconnection | None |
| Degiusto | Vince | UGI Development Company | Generation Owner |
| Derin | Bilge | PJM Interconnection | None |
| Domian | Christin | Duquesne Light Company | Transmission Owner |
| Dropkin | Ilyana | PJM Interconnection | None |
| Dugan | Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Egan | Amanda | PJM Interconnection | None |
| Egan | David | PJM Interconnection | None |
| Elkins | Rachel | FirstEnergy Corporation | Transmission Owner |
| Ellis | Dean | Dynegy Marketing and Trade, LLC | Generation Owner |
| Fabiano | Janell | PJM Interconnection | None |
| Fernandez | Ray | PJM Interconnection | None |
| Fhemk | Jessica | | |
| Fitzpatrick | Brian | PJM Interconnection | None |
| Foladare | Ken | Geenex Solar LLC | Generation Owner |
| Forcum | David | Duke Energy Ohio, Inc. | Transmission Owner |
| Foster Cronin | Denise | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Franks | Chris | PJM Interconnection | None |
| Frogg | Darrell | PJM Interconnection | None |
| Gilani | Rehan | ConEdison Energy, Inc. | Other Supplier |
| Goodstein | Jon | DC Energy, LLC | Other Supplier |
| Greiner | Gary | American PowerNet Management | End-Use Customer |
| Guntle | Vince | American PowerNet Management | End-Use Customer |
| Hammack | Matthew | PPL Electric Utilities Corporation | Transmission Owner |
| Hatch | Kevin | PJM Interconnection | None |
| Hehir | Flannan | Appian Way Energy Partners MidAtlantic, LLC | Other Supplier |
| Helm | Gary | PJM Interconnection | None |
| Hepplewhite | Peter | Wrigley Capital LLC | Other Supplier |
| Hicks | Dave | Noble Americas Energy Solutions LLC | None |
| Hislop | David | PJM Interconnection | None |

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|--------------|-----------|--|----------------------|
| Hoatson | Tom | Riverside Generating, LLC | Generation Owner |
| Hoey | Edward | PJM Interconnection | None |
| Hohenshilt | Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Horning | Lynn | Customized Energy Solutions, Ltd. | None |
| Horstmann | John | Dayton Power & Light Company | Transmission Owner |
| Hull | Gerit | American Municipal Power, Inc. | Electric Distributor |
| Hurwich | Mark | Elliott Bay Energy Trading, LLC | Other Supplier |
| Hyatt | Earl | Monitoring Analytics | None |
| Hyzinski | Tom | GT Power Group, LLC | None |
| Idzior | John | ReliabilityFirst | None |
| Iler | Art | Indiana Office of Utility Consumer Counsel | End-Use Customer |
| Jardot | Gina | NRG Power Marketing, LLC | Generation Owner |
| Johnson | Carl | Customized Energy Solutions, Ltd. | None |
| Johnston | David | Indiana Utility Regulatory Commission | None |
| Josyula | Siva | Monitoring Analytics | None |
| Kalaskar | Rahul | AES Ohio Generation, LLC | Generation Owner |
| Keenan | Matthew | Jpower USA | None |
| Kelly | Ross | PJM Interconnection | None |
| Kelly | Stephen | Brookfield Energy Marketing LP | Other Supplier |
| Kent | Janessa | Duquesne Light Company | Transmission Owner |
| Kilgallen | Kevin | Avangrid Renewables LLC | Generation Owner |
| Kimmel | David | PJM Interconnection | None |
| Kogut | George | New York Power Authority | Other Supplier |
| Kudryavtseva | Viktoriya | Gen IV Investment Opportunities, LLC | Other Supplier |
| Lai | Erin | PJM Interconnection | None |
| Lee | Ray | PJM Interconnection | None |
| Liang-Nicol | Cecilia | Monongahela Power Company | Transmission Owner |
| Libbos | Robin | FirstEnergy Corporation | Transmission Owner |
| Lieberman | Steve | American Municipal Power, Inc. | Electric Distributor |
| Luna | Joel | Monitoring Analytics | None |
| Lynch | Jessica | PJM Interconnection | None |
| Mabry | David | McNees Wallace & Nurick LLC | None |
| Mali | Gizella | PJM Interconnection | None |

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|--------------|-----------|--|----------------------|
| Matufzak | Alex | UGI Energy Services, LLC | Other Supplier |
| McGill | Susan | PJM Interconnection | None |
| McLavery | Megan | PJM Interconnection | None |
| Midgley | Sharon | Exelon Business Services Company, LC | Transmission Owner |
| Nader | Jordan | RunnerStone, LLC | None |
| Neubrander | Kerry | DC Energy Mid-Atlantic, LLC | Other Supplier |
| O' Neill | Jack | PJM Interconnection | None |
| Okenfuss | James | Savion, LLC | None |
| O'Leary | Chris | PSEG Energy Resources & Trade LLC | Other Supplier |
| Ondayko | Brock | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Pakela | Gregory | DTE Energy Trading, Inc. | Other Supplier |
| Patel | Shodhan | Constellation Energy Generation, LLC | Generation Owner |
| Peebles | Andy | Saracen Energy East LP | Other Supplier |
| Phillips | Darlene | PJM Interconnection | None |
| Pilch | Joe | Duquesne Light Company | Transmission Owner |
| Filomena | Guy | Customized Energy Solutions, Ltd. | None |
| Pilong | Chris | PJM Interconnection | None |
| Pincus | Steven | PJM Interconnection | None |
| Price | Mark | DC Energy Mid-Atlantic, LLC | None |
| Proconiar | Jason | Buckeye Power, Inc. | Electric Distributor |
| Ramsey | James | Suffolk Fund LLC | None |
| Robinson | Becky | Vista Energy Marketing, L.P. | Other Supplier |
| Rogers | Aaron | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Rohrbach | John | Southern Maryland Electric Cooperative, Inc. | Electric Distributor |
| Rosenberger | Eric | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Rutledge | Craig | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Sasser | Jonathan | Customized Energy Solutions, Ltd. | None |
| Scarpiganato | David | Calpine Energy Services, L.P. | Generation Owner |
| Schroeder | Connie | | |
| Schwarz | Stephanie | PJM Interconnection | None |

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| Schweizer | David | PJM Interconnection | None |
| Sells | Scott | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Shaughnpsy | Mike | Duquesne Light Company | Transmission Owner |
| Sloan | Ben | Organization of PJM States, Inc. (OPSI) | None |
| Sotkiewicz | Paul | E-Cubed Policy Associates | None |
| Souder | Richard | PJM Interconnection | None |
| Spatafore | Julia | PJM Interconnection | None |
| Stadelmeyer | Rebecca | PJM Interconnection | None |
| Stanisz | Mark | PJM Interconnection | None |
| Stefanowicz | Vincent | PJM Interconnection | None |
| Stemetzki | Mike | PJM Interconnection | None |
| Stern | Alex | Public Service Electric & Gas Company | Transmission Owner |
| Stone | Andy | PJM Interconnection | None |
| Sturgeon | John | Duke Energy Business Services LLC | Transmission Owner |
| Sullivan | James | Neptune Regional Transmission System, LLC | Transmission Owner |
| Svenson | Heather | Public Service Electric & Gas Company | Transmission Owner |
| Swalwell | Brad | Tangent Energy Solutions, Inc. | Other Supplier |
| Sweeney | Rory | GT Power Group | None |
| Swigonski | Frank | Advanced Energy Economy, Inc. | None |
| Tam | Simon | PJM Interconnection | None |
| Velumyllum | Ganesh | Bright Night Power | None |
| Whicehead | Jeff | GT Power Group | None |
| Yoder | Michael | RTO Insider | None |
| Yovanovich | Laura | PJM Interconnection | None |
| Zhang | Michael | PJM Interconnection | None |

OC Subcommittee/ Task Force Informational Section

System Operations Subcommittee (SOS): [SOS Website](#)


Data Management Subcommittee (DMS): [DMS Website](#)

DER & Inverter-Based Resources Subcommittee (DIRS): [DIRS Website](#)

Fuel Requirements for Black Start Resources: [Fuel Req. for Black Start Resources Issue Tracker](#)

Synchronous Reserve Deployment Task Force: [SRDTF Website](#)

IROL – CIP Cost Recovery: [IROL – CIP Cost Recovery Issue Tracker](#)

| Future Meeting Dates and Materials | | | Materials Due to Secretary  | Materials Published |
|------------------------------------|--------|--|--|---------------------|
| Date | Time | Location | 5 p.m. | 4 p.m. |
| July 14, 2022 | 9 a.m. | PJM Conference & Training Center and WebEx | July 1, 2022 | July 7, 2022 |
| August 11, 2022 | 9 a.m. | PJM Conference & Training Center and WebEx | August 1, 2022 | August 4, 2022 |
| September 8, 2022 | 9 a.m. | PJM Conference & Training Center and WebEx | August 29, 2022 | September 1, 2022 |
| October 7, 2022 | 9 a.m. | PJM Conference & Training Center and WebEx | September 27, 2022 | September 30, 2022 |
| November 3, 2022 | 9 a.m. | PJM Conference & Training Center and WebEx | October 24, 2022 | October 27, 2022 |
| December 8, 2022 | 9 a.m. | PJM Conference & Training Center and WebEx | November 28, 2022 | December 1, 2022 |

Author: Jeffrey McLaughlin

Antitrust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws 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. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

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Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings. PJM may create audio, video or online recordings of stakeholder meetings for internal and training purposes, and your participation at such meetings indicates your consent to the same.

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| During a Meeting | During an Acclamation Vote |
|--|---|
| <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>*1</p> <p>To enter the question queue (does not work during a vote)</p> </div> <div style="text-align: center;"> <p>*2</p> <p>To be removed from the question queue</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>*0</p> <p>To signal for PJM support staff assistance</p> </div> | <p>Please log in to the voting application at voting.pjm.com, so that you can be registered as the active voter prior to the start of the meeting.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>*7</p> <p>Yes</p> </div> <div style="text-align: center;"> <p>*8</p> <p>No</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>*9</p> <p>Abstain</p> </div> <div style="text-align: center;"> <p>*0</p> <p>To signal for PJM support staff assistance</p> </div> </div> |
| <p>Asking A Question</p> <ul style="list-style-type: none"> Dialing *1 enters you into the question queue; the three dial tones are an auditory indication that you have successfully been placed in the queue. Questions are taken during the meeting when natural breaks occur and are asked in the order they are received. | |
| <p>Linking Teleconference Connection to Webex</p> <p>When logging in to the meeting, access Webex first and select the "call me" feature to receive a direct call to your phone. Using this feature will connect your name to your Webex presence.</p> | |

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| Join a Meeting | <ol style="list-style-type: none"> Join meeting in the Webex desktop client Enter name (<i>First and Last*</i>) and corporate email Call in to the operator-assisted number |
|-----------------------|--|

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 Visit learn.pjm.com, an easy-to-understand resource about the power industry and PJM's role.