

Operating Committee
WebEx Only
September 10, 2021
9:00 a.m. – 12:00 p.m. EDT

Administration

1. Lauren Strella Wahba, PJM, provided announcements; reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation, and the WebEx Participant Identification Requirement.
 - a. Review and approve draft minutes from the August 12th OC meeting. **The Committee approved the draft minutes from the August 12, 2021 Operating Committee meeting with 0 objections and 0 abstentions.**
 - b. Reviewed the OC work plan.

Review of Operations

2. PJM COVID-19 Update
Becky Carroll, PJM, provided an update on PJM's operations plan in response to COVID-19.
<https://pjm.com/committees-and-groups/pandemic-coordination.aspx>
3. Review of Operating Metrics
Stephanie Monzon, PJM, reviewed the August 2021 PJM operating metrics slides. Metrics included PJM's load forecast error, BAAL performance, and transmission / generation outage statistics.

Endorsements/Approvals

4. Manual 14D: Generator Operational Requirements
Terri Esterly, PJM, reviewed Manual 14D changes related to Behind the Meter Generation (BTMG) Business Rules on Status Changes developed in MIC Special Sessions.
The Operating Committee endorsed the changes to Manual 14D with 0 objections and 1 abstention.

Issue Tracking: [Behind the Meter Generation Business Rules on Status Changes](#)

First Reading

5. Manual 01 Attachment F: Control Center and Data Exchange Requirements (MOC Remote Operations)
Chris Moran, PJM, reviewed Manual 01 Attachment F changes related to Exceptional Circumstances outside of COVID-19. Attachment F is set to expire on December 31, 2021 and the language changes will make Attachment F a permanent part of Manual 01.
The Operating Committee will be asked to endorse these changes at its next meeting.

Informational Updates

6. System Operations Subcommittee (SOS) Report
Becky Carroll, PJM, provided a summary of the most recent SOS meeting.
7. Primary Frequency Response Update
Ilyana Dropkin, PJM, provided an update on PJM primary frequency response performance.
8. Regulation Performance Update
Ilyana Dropkin, PJM, provided an update on PJM regulation market performance.
9. Synchronized Reserve Performance Update
Dave Kimmel, PJM, provided a review of recent synchronized reserve performance.
10. Synchrophasor Update
Eric Hsia, PJM, reviewed recent activities around PMUs at PJM.
11. PPL Dynamic Line Rating Update
Eric Hsia, PJM, provided an update on the implementation of the PPL Dynamic Line Rating.
12. PJM Project Summary
Jim Snow, PJM, reviewed the Preliminary 2022 Project Budget.
13. NERC Lessons Learned
Donnie Bielak, PJM, reviewed the latest posted NERC Lessons Learned reports.
14. Reliability Compliance Update
Becky Davis, PJM, provided an update on NERC, SERC, RFC, and NAESB standards, and other pertinent regulatory and compliance information, and solicited feedback from the members on Reliability Compliance efforts.

Working Items

Informational Only Postings

Attendance

| Last Name | First Name | Company | Sector |
|---------------------------|------------|-------------------------|--------------------|
| Phillips (Chair) | Darlene | PJM Interconnection | Not Applicable |
| Strella Wahba (Secretary) | Lauren | PJM Interconnection | Not Applicable |
| Anders | David | PJM Interconnection | Not Applicable |
| Baker | Jeff | Duke Energy Ohio, Inc. | Transmission Owner |
| Barner | Mike | Dominion Virginia Power | None |


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|-------------|-------------|--|----------------------|
| Benchek | Jim | American Transmission Systems, Inc. | Transmission Owner |
| Bernstein | Matthew | PJM Interconnection | Not Applicable |
| Berton | Tyler | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Bielak | Donnie | PJM Interconnection | Not Applicable |
| Brady | George | Ohio Valley Electric Corp | Transmission Owner |
| Blair | Tom | Monitoring Analytics, LLC | None |
| Boyle | Glen | PJM Interconnection | Not Applicable |
| Braerman | Ken | BGE | None |
| Brodbeck | John | EDP Renewables North America LLC | Generation Owner |
| Brown | Richard | PJM Interconnection | Not Applicable |
| Bryson | Mike | PJM Interconnection | Not Applicable |
| Buhler | Thomas | Rockland Electric Company | Transmission Owner |
| Callaghan | Christopher | PJM Interconnection | Not Applicable |
| Cao | Roger | PJM Interconnection | Not Applicable |
| Capra | Carlo | ITC Interconnection LLC | Transmission Owner |
| Carmean | Gregory | Organization of PJM States, Inc. (OPSI) | Not Applicable |
| Carroll | Rebecca | PJM Interconnection | Not Applicable |
| Chen | Hong | PJM Interconnection | Not Applicable |
| Chen | Yang | PJM Interconnection | Not Applicable |
| Chu | George | PJM Interconnection | Not Applicable |
| Croop | Danielle | PJM Interconnection | Not Applicable |
| Davis | Elizabeth | PJM Interconnection | Not Applicable |
| Dillon | Matt | UGI Development Company | Generation Owner |
| Dolan | James | PJM Interconnection | Not Applicable |
| Downs | Jere | PJM Interconnection | Not Applicable |
| Dropkin | Ilyana | PJM Interconnection | Not Applicable |
| Dugan | Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Egan | Amanda | PJM Interconnection | Not Applicable |
| Elkins | Rachel | FirstEnergy Corporation | Transmission Owner |
| Esterly | Theresa | PJM Interconnection | Not Applicable |
| Fabiano | Janell | PJM Interconnection | Not Applicable |
| Fahr | Suzie | PJM Interconnection | Not Applicable |
| Fan | Zhenyu | PJM Interconnection | Not Applicable |
| Fereshetian | Damon | PJM Interconnection | Not Applicable |
| Filomena | Guy | Customized Energy Solutions, Ltd. | None |
| Fitzpatrick | Brian | PJM Interconnection | Not Applicable |
| Foladare | Kenneth | Geenex Solar LLC | Generation Owner |
| Ford | Adrien | Old Dominion Electric Cooperative | Electric Distributor |

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| Gates | Terry | Appalachian Power Company (AEP Generation) | Transmission Owner |
| Gilani | Rehan | ConEdison Energy, Inc. | Other Supplier |
| Guntle | Vince | UGI Energy Services, LLC | Other Supplier |
| Hammack | Matthew | PPL Electric Utilities Corporation | Transmission Owner |
| Hastings | David | Market Interconnection Consulting Services (MICS) | None |
| Hatch | Kevin | PJM Interconnection | Not Applicable |
| Hauske | Tom | PJM Interconnection | Not Applicable |
| Heisey | Bradley | Wolf Hills Energy, LLC | Generation Owner |
| Hepplewhite | Peter | Wrigley Capital, LLC | Other Supplier |
| Hoatson | Tom | West Deptford Energy, LLC | Generation Owner |
| Hohenshilt | Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Horning | Lynn | Customized Energy Solutions, Ltd. | None |
| Hsia | Eric | PJM Interconnection | Not Applicable |
| Hudson | Alex | | |
| Hyzinski | Tom | GT Power Group, LLC | None |
| Janicki | Diane | Boston Energy Trading & Marketing, LLC | Other Supplier |
| Jarrah | Danny | PPL Electric Utilities Corp. | Transmission Owner |
| Jett | Bill | Duke Energy Business Services LLC | Transmission Owner |
| Johnson | Carl | Customized Energy Solutions | None |
| Kazerooni | Hamid | PJM Interconnection | Not Applicable |
| Khan | Bakhtawar | Gabel and Associates | None |
| Kimmel | David | PJM Interconnection | Not Applicable |
| Kogut | George | New York Power Authority | Other Supplier |
| Krawczyk | Leslie | ReliabilityFirst | None |
| Kuo | Dave | DC Energy LLC | Other Supplier |
| LaRocque | Matt | PJM Interconnection | Not Applicable |
| Libbos | Robin | FirstEnergy Corporation | Transmission Owner |
| Lieberman | Steve | American Municipal Power, Inc. | Electric Distributor |
| Lowe | Connie | Dominion Virginia Power | None |
| Mabry | David | McNees Wallace & Nurick LLC | None |
| Mali | Gizella | PJM Interconnection | Not Applicable |
| Matuszak | Alex | UGI Energy Services, LLC | Other Supplier |
| McLaverty | Megan | PJM Interconnection | Not Applicable |
| Midgley | Sharon | Exelon Business Services Company, LC | Transmission Owner |
| Monzon | Stephanie | PJM Interconnection | Not Applicable |
| Moran | Chris | PJM Interconnection | Not Applicable |
| Mulhern | Joe | PJM Interconnection | Not Applicable |
| Mulhern | Molly | PJM Interconnection | Not Applicable |

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| Murphy | Shaun | Urban Grid Solar | |
| Oakes | Brian | PJM Interconnection | Not Applicable |
| O'Hara | Chris | PJM Interconnection | Not Applicable |
| Okenfuss | James | Savion, LLC | None |
| Ondayko | Brock | AEP Energy Partners, Inc. (AEP Gen Resources) | Transmission Owner |
| Pakela | Gregory | DTE Energy Trading, Inc. | Other Supplier |
| Patel | Anita | PJM Interconnection | Not Applicable |
| Price | Mark | DC Energy Mid-Atlantic LLC | None |
| Rainey | John | Northern Virginia Electric Cooperative | Electric Distributor |
| Robinson | Becky | Vista Energy Marketing, L.P. | Other Supplier |
| Rodriguez | Tomas | OPSI | None |
| Rooney | Alexa | PPL Electric Utilities Corp. | Transmission Owner |
| Sasser | Jonathan | Customized Energy Solutions, Ltd. | None |
| Scarpignato | David | Calpine Energy Services, L.P. | Generation Owner |
| Schweizer | David | PJM Interconnection | Not Applicable |
| Shields | Jeffrey | PJM Interconnection | Not Applicable |
| Snow | Jim | PJM Interconnection | Not Applicable |
| Squibb | Bill | Ohio Valley Electric Corp | Transmission Owner |
| Stack | James | Duquesne Light Company | Transmission Owner |
| Stemetzki | Michael | PJM Interconnection | Not Applicable |
| Stern | Alex | Public Service Electric & Gas Company | Transmission Owner |
| Stone | Andy | PJM Interconnection | Not Applicable |
| Sturgeon | John | Duke Energy Business Services LLC | Transmission Owner |
| Svenson | Heather | Public Service Electric & Gas Company | Transmission Owner |
| Swalwell | Brad | Tangent Energy Solutions, Inc. | Other Supplier |
| Swanson | Tucker | BP Energy Company | Other Supplier |
| Sweeney | Rory | GT Power Group | None |
| Tam | Simon | PJM Interconnection | Not Applicable |
| Thomas | Jack | PJM Interconnection | Not Applicable |
| Tribulski | Jennifer | PJM Interconnection | Not Applicable |
| Tutino | Joseph | PJM Interconnection | Not Applicable |
| Ward | Mike | PJM Interconnection | Not Applicable |
| Wharton | Matthew | Guidehouse Inc. | None |
| Whitehead | Jeff | GT Power Group | None |
| Widom | Stuart | PJM Inteconnection | Not Applicable |
| Wisersky | Megan | Madison Gas & Electric Company | Other Supplier |
| Yoder | Michael | RTO Insider | 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. |
| October 07, 2021 | 9 a.m. | WebEx | September 27, 2021 | September 30, 2021 |
| November 04, 2021 | 9 a.m. | WebEx | October 25, 2021 | October 28, 2021 |
| December 02, 2021 | 9 a.m. | WebEx | November 22, 2021 | November 24, 2021 |

Author: L. Strella Wahba

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.

Public Meetings/Media Participation:

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.

Participant Identification in WebEx:

When logging into the WebEx desktop client, please enter your real first and last name as well as a valid email address. Be sure to select the "call me" option. PJM support staff continuously monitors WebEx connections during stakeholder meetings. Anonymous users or those using false usernames or emails will be dropped from the teleconference.

| 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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| <h2>Join a Meeting</h2> | <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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**Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.*

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)
 Visit learn.pjm.com, an easy-to-understand resource about the power industry and PJM's role.