

Operating Committee
Webex Only
September 3, 2020
9:00 a.m. – 12:00 p.m. EPT

Administration

1. Lauren Strella Wahba, PJM, provided announcements; review the Antitrust, Code of Conduct, Public Meetings/Media Participation, and the WebEx Participant Identification Requirement.
 - a. Reviewed and approved the Operating Committee (OC) agenda for this meeting.
 - b. Reviewed and approved draft minutes of the August 6 OC meeting.
 - c. Reviewed the OC work plan.

Review of Operations

2. PJM COVID-19 Update
Paul McGlynn, PJM, provided an update on PJM's operations plan in response to COVID-19.
<https://pjm.com/committees-and-groups/pandemic-coordination.aspx>
3. PJM August 3, 2020 Technical Issues Update
Sean McNamara, PJM, discussed the technical issues that temporarily caused a number of PJM's applications, tools, pjm.com, and external email to be inaccessible after business hours on Monday, Aug. 3, 2020.
4. Review of Operating Metrics
Stephanie Monzon, PJM, reviewed the August 2020 PJM operating metrics slides. Metrics will include PJM's load forecast error, BAAL performance, and transmission / generation outage statistics.

First Reading

5. Manual 14D Changes
Darrell Frogg, PJM, reviewed updates to Manual 14D: Generator Operational Requirements.
The Operating Committee will be asked to endorse these changes at the next meeting.
6. Manual 10 Changes
Vince Stefanowicz, PJM, reviewed updates to Manual 10: Pre-Scheduling Operations.
The Operating Committee will be asked to endorse these changes at the next meeting.

Tool and Informational Updates

7. Summary of ISO/RTO Council Response to DOE's Request for Information on the Bulk-Power System Executive Order
Craig Glazer, PJM, provided an update on Department of Energy Efforts to Implement the President's Executive Order to Remove Grid Equipment Connected to 'Foreign Adversaries'.

8. System Operations Subcommittee (SOS) Report
Rebecca Carroll, PJM, provided a summary of the most recent SOS meeting.
9. Intelligent Reserve Deployment (IRD) Rollout
Mike Zhang, PJM, provided an update on the status of the IRD rollout.
10. Synchronous Reserve Update
David Kimmel, PJM, provided review of recent synchronized reserve performance.
11. Remedial Action Scheme (RAS) Retirement Review
Chris Szmodis, PPL, reviewed the retirement of the Susquehanna Catty Corner RAS.
12. PJM Project Summary for Upcoming Year
Jim Snow, PJM, reviewed the Preliminary 2021 Project Budget.
13. Behind the Meter Generation Business Rules on Status Changes
Terri Esterly, PJM, provided an informational update on the Problem Statement and Issue Charge at the MIC which addresses the updates to the Behind the Meter Generation business rules related to a BTMG unit changing status from BTMG (netting against the load) to a resource participating in PJM Markets (and vice versa).
14. Post-MRC Discussion Regarding PMUs
Mark Stanisz, PJM, addressed certain legal issues regarding phasor measurement units (PMUs) that arose at the August 20 MRC meeting.
15. NERC Lessons Learned
Donnie Bielak, PJM, reviewed the latest posted NERC Lessons Learned reports.
16. Reliability Compliance Update
Mark Kuras, PJM, provided an update on NERC, SERC and RFC standards, and other pertinent regulatory and compliance information, and solicit feedback from the members on Reliability Compliance efforts.

Black Start Unit Testing, CRF, Involuntary Termination, and Substitution Rules

17. Black Start Unit Testing, CRF, Involuntary Termination, and Substitution Rules Matrix
 - a. Becky Davis, PJM, provided a first read of the PJM solution package.
The Operating Committee will be asked to endorse the solution package at the next meeting.
 - b. Joe Bowring, IMM, provided a first read of the IMM solution package.
The Operating Committee will be asked to endorse the solution package at the next meeting.
 - c. Mike Borgatti, Gabel Associates, presented the potential impacts of the proposed Black Start rate changes on behalf of Black Start Resource Owners.

Action Items

1. PJM to review the interest rates for fuel carrying cost used in the base formula rate and present findings at the October OC meeting.
2. PJM to provide an additional presentation on the Intelligent Reserve Deployment (IRD) rollout at the October OC meeting. This update will include: the number of times there were spin events for the loss of the largest unit, education on the concern around high LMPs as a result of basing IRD off of the largest unit and constraint control issues when a unit is not in the right zone as the actual loss, and data around existing IRD cases ran in the PJM Sandbox environment

Attendance (WebEx)

| Last Name | First Name | Company | Sector |
|---------------------------|------------|---|--------------------|
| Phillips (Chair) | Darlene | PJM Interconnection | Not Applicable |
| Strella Wahba (Secretary) | Lauren | PJM Interconnection | Not Applicable |
| Ainspan | Malcolm | Energy Curtailment Specialists, Inc. | Other Supplier |
| Anders | David | PJM Interconnection | Not Applicable |
| Balascak | Andrew | PPL Electric Utilities Corp. dba PPL Utilities (TO) | Transmission Owner |
| Benckek | Jim | First Energy | Transmission Owner |
| Bennett | Dan | PJM Interconnection | Not Applicable |
| Bennett | Stephen | PJM Interconnection | Not Applicable |
| Berger | Keith | First Energy Company | Transmission Owner |
| Bielak | Donnie | PJM Interconnection | Not Applicable |
| Blair | Tom | Monitoring Analytics | None |
| Bockhorn | Tim | Dayton Power & Light Company | Transmission Owner |
| Borgatti | Mike | Gabel Associates | Not Applicable |
| Bowring | Joe | Monitoring Analytics | None |
| Boyle | Glen | PJM Interconnection | Not Applicable |
| Brady | George | Ohio Valley Electric Corp | Generation Owner |
| Brodbeck | John | EDP Renewables North America LLC | Generation Owner |
| Bryson | Mike | PJM Interconnection | Not Applicable |
| Burlew | James | PJM Interconnection | Not Applicable |
| Cao | Roger | PJM Interconnection | Not Applicable |
| Capra | Carlo | ITC Interconnection LLC | Transmission Owner |
| Carmean | Gregory | OPSI | Not Applicable |
| Carroll | Rebecca | PJM Interconnection | Not Applicable |
| Caven | Augustine | PJM Interconnection | Not Applicable |
| Cerchio | Jerry | Monitoring Analytics | None |
| Chen | Hong | PJM Interconnection | Not Applicable |
| Christopher | Mahila | PUCO Ohio | None |

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|---------------|-----------|--|----------------------|
| Chu | George | PJM Interconnection | Not Applicable |
| Collins | Kevin | Cornerstone Gas, L.L.C. | Generation Owner |
| Crystle | Gil | UGI Development Company | Transmission Owner |
| Dajewski | Paul | PJM Interconnection | Not Applicable |
| D'Alessandris | Lou | First Energy | Transmission Owner |
| Davis | Jim | Dominion Energy Generation Marketing, Inc. | Generation Owner |
| Davis | Elizabeth | PJM Interconnection | Not Applicable |
| DeGiusto | Vince | UGI Development Company | Generation Owner |
| Dillon | Matt | UGI Development Company | Generation Owner |
| Dolan | James | PJM Interconnection | Not Applicable |
| Dugan | Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Ericson | Christine | Illinois Commerce Commission | Not Applicable |
| Esterly | Theresa | PJM Interconnection | Not Applicable |
| Fabiano | Janell | PJM Interconnection | Not Applicable |
| Fereshetian | Damon | PJM Interconnection | Not Applicable |
| Filomena | Guy | Customized Energy Solutions, Ltd. | None |
| Fitch | Neal | NRG Power Marketing LLC | Generation Owner |
| Fitzpatrick | Brian | PJM Interconnection | Not Applicable |
| Foladare | Kenneth | Geenex Solar LLC | Generation Owner |
| Ford | Adrien | Old Dominion Electric Cooperative | Electric Distributor |
| Frogg | Darrell | PJM Interconnection | Not Applicable |
| Gates | Terry | Appalachian Power Company (AEP Generation) | Transmission Owner |
| Gebele | Don | Dayton Power & Light Company | Transmission Owner |
| Gebolys | Debbie | Public Utilities Commission of Ohio | Not Applicable |
| Genuario | Gabrielle | PJM Interconnection | Not Applicable |
| Gilani | Rehan | ConEdison Energy, Inc. | Other Supplier |
| Glazer | Craig | PJM Interconnection | Not Applicable |
| Gradoville | Keenan | Unknown | Unknown |
| Grear | Mark | Exelon Generation Co., LLC | Generation Owner |
| Greening | Michele | PJM Interconnection | Not Applicable |
| Greiner | Gary | PSEG Energy Resources and Trade LL | Other Supplier |
| Grubb | Rick | Newark Energy Center, LLC | Generation Owner |
| Guntle | Vince | UGI Development Company | Generation Owner |
| Hanebuth | Michele | Consolidated Edison Company of NY, Inc. | Transmission Owner |
| Hanser | Erik | Michigan Public Service Commission | Not Applicable |
| Hauske | Tom | PJM Interconnection | Not Applicable |

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|------------|-----------|--|--------------------|
| Helms | Joseph | Rainbow Energy Marketing Corporation | Other Supplier |
| Hendrzak | Chantal | PJM Interconnection | Not Applicable |
| Herel | Suzanne | PJM Interconnection | Not Applicable |
| Hoang | Liem | PJM Interconnection | Not Applicable |
| Hoatson | Tom | West Deptford Energy, LLC | Generation Owner |
| Hohenshilt | Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Hsia | Eric | PJM Interconnection | Not Applicable |
| Hudis | Gabriella | Jersey Green Energy LLC | Other Supplier |
| Hunter | Andy | Metropolitan Edison Company | Transmission Owner |
| Hyzinski | Tom | GT Power Group, LLC | None |
| Iler | Art | Indiana Office of Utility Consumer Counsel | End Use Customer |
| Janicki | Diane | BETM | None |
| Johnson | Carl | Customized Energy Solutions, Ltd. | None |
| Keenan | Matthew | Jpower USA | Not Applicable |
| Kelly | Stephen | Brookfield Renewable Trading and Marketing LP (BSMH) | Other Supplier |
| Kimmel | David | PJM Interconnection | Not Applicable |
| Kogut | George | New York Power Authority | Other Supplier |
| Kuras | Mark | PJM Interconnection | Not Applicable |
| Lee | Ray | PJM Interconnection | Not Applicable |
| Libbos | Robin | First Energy | Transmission Owner |
| Lowe | Connie | Dominion Virginia Power | Transmission Owner |
| Mabry | David | McNees Wallace & Nurick LLC | None |
| Mariam | Yohannes | Office of the Peoples Counsel for the District of Columbia | End User Customer |
| Mason | Ray | ReliabilityFirst Corporation | Not Applicable |
| Matheson | Eric | Pennsylvania Public Utility Commission | Not Applicable |
| Matuszak | Alex | UGI Energy Services, LLC | Other Supplier |
| McGlynn | Paul | PJM Interconnection | Not Applicable |
| McNamara | Sean | PJM Interconnection | Not Application |
| Midgley | Sharon | Exelon Business Services Company, LC | Transmission Owner |
| Monzon | Stephanie | PJM Interconnection | Not Applicable |
| Murphy | Shaun | PJM Interconnection | Not Applicable |
| Nelson | Floyd | NRG Power Marketing LLC | Generation Owner |
| Nix | Emma | Gabel Associates | None |
| Olaleye | Michael | PJM Interconnection | Not Applicable |
| O'Leary | Chris | PSEG Energy Resources and Trade LLC | Transmission Owner |

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| 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 |
| Pilong | Christopher | PJM Interconnection | Not Applicable |
| Pincus | Steve | PJM Interconnection | Not Applicable |
| Poulos | Steven | CAPS | Not Applicable |
| Rigney | Peter | Northampton Generating Company L.P. | Generation Owner |
| Rodriguez | Tomás | OPSI | None |
| Rohrbach | John | Southern Maryland Electric Cooperative | Electric Distributor |
| Sasser | Jonathan | Customized Energy Solutions, Ltd. | None |
| Scarpignato | David | Calpine Energy Services, L.P. | Generation Owner |
| Schmitt | Jeffrey | PJM Interconnection | Not Applicable |
| Schuyler | Ken | PJM Interconnection | Not Applicable |
| Schweizer | David | PJM Interconnection | Not Applicable |
| Sillin | John | Federal Energy Regulatory Commission | None |
| Sims | Ryan | IGS | Not Applicable |
| Singer | Chad | Trane Grid Services, LLC | Other Supplier |
| Skumanich | Bill | RTR Energy Solutions LLC | None |
| Snow | Jim | PJM Interconnection | Not Applicable |
| Sotkiewicz | Paul | E-Cubed Policy Associates | Not Applicable |
| Squibb | Bill | Ohio Valley Electric | Generation Owner |
| Stanisz | Mark | PJM Interconnection | Not Applicable |
| Stefanowicz | Vince | PJM Interconnection | Not Applicable |
| Stern | Alex | Public Service Electric & Gas Company | Transmission Owner |
| Stone | Andy | Other | None |
| Sturgeon | John | Duke Energy Business Services LLC | Transmission Owner |
| Suh | Jung | Calpine Energy Services, L.P. | Generation Owner |
| Sullivan | James | Neptune Regional Transmission System, LLC | Transmission Owner |
| Svenson | Heather | Public Service Electric & Gas Company | Transmission Owner |
| Sweeney | Rory | GT Power Group, LLC | None |
| Szmodis | Chris | PPL Electric Utilities Corp. | Transmission Owner |
| Thomas | Jack | PJM Interconnection | Not Applicable |
| Tribulski | Jennifer | PJM Interconnection | Not Applicable |
| Whitehead | Jeff | GT Power Group | Not Applicable |

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| Wise | Christopher | Dominion Energy Generation Marketing, Inc. | Generation Owner |
| Wisersky | Megan | Madison Gas & Electric Co. | Other Supplier |
| Yoder | Michael | RTO Insider | None |
| Zhang | Mike | PJM Interconnection | Not Applicable |
| Zhao | Jenny | Appalachian Power Company | Transmission Owner |

OC Subcommittee/ Task Force Informational Section

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

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

Distributed Energy Resources Subcommittee (DERS): [DERS Website](#)

System Restoration Coordinators Subcommittee (SRCS): [SRCS Website](#)

Primary Frequency Response Sr. Task Force (PFRSTF): [PFRSTF Website](#)

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

Future Meeting Dates

| | | |
|------------------|-----------|---|
| October 8, 2020 | 9:00 a.m. | PJM Conference & Training Center/ WebEx |
| November 6, 2020 | 9:00 a.m. | PJM Conference & Training Center/ WebEx |
| December 3, 2020 | 9:00 a.m. | PJM Conference & Training Center/ WebEx |

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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.

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1. Join meeting in the WebEx desktop client
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3. Under "Select Audio Option" select "Call Me" option from the dropdown menu

**Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.*

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