

Operating Committee
WebEx Only
May 12, 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.
 - a. Reviewed and approved draft minutes from the April 14th OC meeting. **The Committee approved the draft minutes from the April 14, 2022 Operating Committee meeting with 0 objections and 0 abstentions.**
 - b. Reviewed of the OC work plan.
 - c. Endorsement of the OC Charter.
The Operating committee endorsed the changes to the OC Charter with 0 objections and 0 abstentions.
 - d. Michele Greening, PJM, provided an update on the return to campus plan for stakeholder meetings.

Review of Operations

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

Endorsements/Approvals

3. Manual 03: Transmission Operations
Lagy Mathew, PJM, reviewed Manual 03 changes as a part of the periodic review.
The Operating Committee endorsed the changes to Manual 03 with 0 objections and 0 abstentions.
4. Manual 36: System Restoration
Rich Brown, PJM, reviewed Manual 36 changes as a part of the periodic review.

The Operating Committee endorsed the changes to Manual 36 with 0 objections and 0 abstentions.

5. Manual 12: Balancing Operations

Donnie Bielak, PJM, reviewed conforming changes to Manual 12: Balancing Operations as a part of the Stability Limits and Intelligent Reserve Deployment in Markets and Operation Issue Charge and Problem Statement being worked through the Markets Implementation Committee. There was limited stakeholder discussion regarding the desire for additional manual language revisions addressing operational actions to be taken prior to using generator output constraints.

[Stability Limits in Markets and Operation](#)

The Operating Committee endorsed the changes to Manual 12 with 8 objections and 11 abstentions.

6. Outage Coordination Issue Charge and Problem Statement

Paul McGlynn, PJM, reviewed a proposed Issue Charge and Problem Statement that will enhance outage coordination processes and procedures. Two friendly amendments to the Issue Charge were proposed and accepted.

The Operating Committee approved the Issue Charge (containing the two friendly amendments) with 0 objections and 1 abstention.

7. RSCS Charter

Monica Burkett, PJM, reviewed changes made to the Reliability Standards & Compliance Subcommittee Charter.

The Operating Committee approved the changes to the RSCS Charter with 0 objections and 0 abstentions.

First Reading

8. 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.

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

[Load Management Testing Requirements](#)

Additional Items

9. OATF Review

Todd Bickel, PJM, reviewed the results of the summer 2022 Operations Assessment Task Force study.

10. 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. PJM continues to provide

updates and solicit stakeholder input at Operating Committee meetings as it prepares its compliance filing, which is due July 12, 2022.

[Order 881](#)

11. PPL Dynamic Line Rating Implementation Update

Dave Hislop, PJM, provided an update on the implementation of the PPL Dynamic Line Rating.

Working Items

12. IROL-CIP Cost Recovery

Janell Fabiano, PJM, facilitated a discussion to review solution packages on the IROL-CIP Cost Recovery matrix as part of the Consensus Based Issue Resolution process. A stakeholder request was made to defer the official first read of solution packages until the June OC to allow more time for internal review. The official first read for solution packages will take place at the June OC.

[Issue Tracking: IROL-CIP Cost Recovery](#)

13. Renewable Dispatch

Janell Fabiano, PJM, facilitated a discussion to review and identify solution options on the Renewable Dispatch matrix as part of the Consensus Based Issue Resolution process.

[Issue Tracking: Renewable Dispatch](#)

14. Max Emergency Changes for Resource Limitation Reporting

Janell Fabiano, PJM, facilitated a discussion to identify design components and solution options on the Max Emergency Changes for Resource Limitation Reporting matrix as a part of the Consensus Based Issue Resolution Lite process.

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

Informational Only Postings

15. System Operations Subcommittee (SOS)

Donnie Bielak, PJM, will provide a summary of the most recent SOS meeting.

16. NERC Lessons Learned

Kevin Hatch, PJM, will review the recently posted NERC Lessons Learned reports.

17. Reliability Compliance Update

Becky Davis, PJM, will provide an update on NERC, SERC, RF, and NAESB standards, and other pertinent regulatory and compliance information, and solicit feedback from the members on Reliability Compliance efforts.

18. Administrative Update to Manual 13: Emergency Operations

An administrative update will be made to the manual load dump data tables found in Manual 13: Emergency Operations under:

- Attachment E: Manual Load Dump Allocation Tables
- Attachment F: PJM Manual Load Dump Capability, Exhibit 7

The data is updated on an annual basis to reflect the peak load forecast for the upcoming summer.

Attendance

Last Name	First Name	Company	Sector
Phillips (Chair)	Darlene	PJM Interconnection	None
McLaughlin (Secretary)	Jeffrey	PJM Interconnection	None
Aguilar	Fabiano	Storm Power, LLC	Other Supplier
Anastasio	Elizabeth	PJM Interconnection	None
Anders	David	PJM Interconnection	None
Anderson	Jared	S&P Global Inc.	None
Atkinson	Tom	Line Vision Inc	None
Baker	Jeff	Duke Energy Ohio, Inc.	Transmission Owner
Barker	Jason	Constellation Energy Generation, LLC	Generation Owner
Barmer	Mike	Dominion Virginia Power	None
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner
Bennett	Dan	PJM Interconnection	None
Berton	Tyler	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Bickel	Todd	PJM Interconnection	None
Blair	Tom	Monitoring Analytics, LLC	None
Bleiweis	Bruce	DC Energy LLC	Other Supplier
Boyle	Glen	PJM Interconnection	None
Brady	George	Ohio Valley Electric Corp	Transmission Owner
Braerman	Ken	Baltimore Gas and Electric Company	Transmission Owner
Brodbeck	John	EDP Renewables North America, LLC	Generation Owner
Brown	Rich	PJM Interconnection	None
Bryson	Michael	PJM Interconnection	None
Burkett	Monica	PJM Interconnection	None
Callaghan	Chris	PJM Interconnection	None
Callis	Joe	PJM Interconnection	None
Carmean	Gregory	OPSI	None
Carroll	Rebecca	PJM Interconnection	None
Christopher	Mahila	Public Utilities Commission of Ohio	None
Ciabattoni	Joseph	PJM Interconnection	None
Circelli	Roseanne	Public Service Electric & Gas Company	Transmission Owner
Clark	Alden	DC Energy LLC	Other Supplier

Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Corash	Richard	PSEG Energy Resources & Trade LLC	Other Supplier
Corder	Nick	Commonwealth Chesapeake Company, LLC	Generation Owner
Curtis	Kenneth	Drilling Info, Inc.	None
Dadourian	John	Monitoring Analytics	None
Dajewski	Paul	PJM Interconnection	None
Dantonio	Phil	PJM Interconnection	None
Davis	Jim	Dominion Energy Generation Marketing, Inc.	Generation Owner
Degiusto	Vince	UGI Development Company	Generation Owner
Derin	Bilge	PJM Interconnection	None
Devita	Thomas	PJM Interconnection	None
Drake	Anna	PJM Interconnection	None
Egan	Amanda	PJM Interconnection	None
Fabiano	Janell	PJM Interconnection	None
Fan	Zhenyu	PJM Interconnection	None
Fazio	Danielle	Noble Americas Gas & Power Corp.	Other Supplier
Filomena	Guy	Customized Energy Solutions, Ltd.	None
Fitzpatrick	Brian	PJM Interconnection	None
Foladare	Ken	Geenex Solar LLC	Generation Owner
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Foster Cronin	Denise	East Kentucky Power Cooperative, Inc.	Transmission Owner
Franks	Chris	PJM Interconnection	None
Frogg	Darrell	PJM Interconnection	None
Gagen	Rod	Dominion Virginia Power	None
Garnett	Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gates	Terry	Appalachian Power Company (AEP Generation)	Transmission Owner
Gebele	Don	Dayton Power & Light Company	Transmission Owner
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Goodstein	Jon	DC Energy, LLC	Other Supplier
Greening	Michele	PJM Interconnection	None
Greiner	Gary	American PowerNet Management	End-Use Customer
Hammack	Matthew	PPL Electric Utilities Corporation	Transmission Owner
Hatch	Kevin	PJM Interconnection	None
Hepplewhite	Peter	Wrigley Capital LLC	Other Supplier
Hislop	David	PJM Interconnection	None
Hoang	Liam	PJM Interconnection	None

Hoatson	Tom	Riverside Generating, LLC	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horger	Timothy	PJM Interconnection	None
Horning	Lynn	Customized Energy Solutions, Ltd.	None
Horstmann	John	Dayton Power & Light Company	Transmission Owner
Hudson	Wes	Dominion Virginia Power	None
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Hyatt	Earl	Monitoring Analytics	None
Hyzinski	Tom	GT Power Group, LLC	None
Iler	Art	Indiana Office of Utility Consumer Counsel	End-Use Customer
Janicki	Diane	Boston Energy Trading & Marketing, LLC	Other Supplier
Jardot	Gina	NRG Power Marketing, LLC	Generation Owner
Jett	William	Duke Energy Business Services LLC	Transmission Owner
Johnson	Carl	Customized Energy Solutions, Ltd.	None
Josyula	Siva	Monitoring Analytics	None
Kazerooni	Hamid	PJM Interconnection	None
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
Kim	Sung	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
Lake	David	FirstEnergy Corporation	Transmission Owner
Lee	Ray	PJM Interconnection	None
Liang-Nicol	Cecilia	Monongahela Power Company	Transmission Owner
Libbos	Robin	FirstEnergy Corporation	Transmission Owner
Lu	Chen	PJM Interconnection	None
Luna	Joel	Monitoring Analytics	None
Mabry	David	McNees Wallace & Nurick LLC	None
Mali	Gizella	PJM Interconnection	None
Manno	Dean	PJM Interconnection	None
Mathew	Lagy	PJM Interconnection	None
McGlynn	Paul	PJM Interconnection	None
McLaverly	Megan	PJM Interconnection	None
McNeil	Justin	Office of the Attorney General, Kentucky	End-Use Customer

Midgley	Sharon	Exelon Business Services Company, LC	Transmission Owner
Muhl	Nancy	PJM Interconnection	None
Neubrandner	Kerry	DC Energy Mid-Atlantic, LLC	Other Supplier
Nice	Ryan	PJM Interconnection	None
Okenfuss	James	Savion, LLC	None
Olinger	Robert	Gen Ops, LLC	Other Supplier
Ondayko	Brock	AEP Appalachian Transmission Company, Inc.	Transmission Owner
O'Neill	Jack	PJM Interconnection	None
Pakela	Gregory	DTE Energy Trading, Inc.	Other Supplier
Peebles	Andrew	Saracen Energy East LP	Other Supplier
Pilch	Joe	Duquesne Light Company	Transmission Owner
Pilong	Chris	PJM Interconnection	None
Pincus	Steven	PJM Interconnection	None
Poulos	Greg	CAPS	None
Rainey	John	Northern Virginia Electric Cooperative	Electric Distributor
Robinson	Becky	Vista Energy Marketing, L.P.	Other Supplier
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
Scarp	David	Calpine Energy Services, L.P.	Generation Owner
Schwarz	Stephanie	PJM Interconnection	None
Schweizer	David	PJM Interconnection	None
Sells	Scott	East Kentucky Power Cooperative, Inc.	Transmission Owner
Shaughnessy	Mike	Duquesne Light Company	Transmission Owner
Shenk	Jessica	Dominion	
Sillin	John	The Federal Energy Regulatory Commission	None
Sloan	Ben	Organization of PJM States, Inc. (OPSI)	None
Sotkiewicz	Paul	E-Cubed Policy Associates	None
Souder	Michelle	PJM Interconnection	None
Squibb	Bill	Ohio Valley Electric Corp	Transmission Owner
Stadlmeyer	Rebecca	PJM Interconnection	None
Stanisz	Mark	PJM Interconnection	None
Stefanowicz	Vincent	PJM Interconnection	None

Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Stone	Andy	PJM Interconnection	None
Strella Wahba	Lauren	PJM Interconnection	None
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
Sweeney	Rory	GT Power Group	None
Swigonski	Frank	Advanced Energy Economy, Inc.	None
Tam	Simon	PJM Interconnection	None
Tiemann	Jeff	PJM Interconnection	None
Walcavich	Colin	National Grid Renewables, LLC	None
White	Neil	AMP Transmission, LLC	Transmission Owner
Whitehead	Jeff	GT Power Group	None
Wilson	James	Wilson Energy Economics	None
Yoder	Michael	RTO Insider	None
You	Cindy		
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't. 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.
June 9, 2022	9 a.m.	PJM Conference & Training Center and WebEx	May 30, 2022	June 2, 2022
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
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Author: L. Stella 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:

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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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