

Operating Committee
WebEx Only
December 2, 2021
9:00 a.m. – 2:00 p.m. EST

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. Reviewed and approved draft minutes from the November 4th OC meeting. **The Committee approved the draft minutes from the November 7, 2021 Operating Committee meeting with 0 objections and 0 abstentions.**
 - b. Darlene Phillips, PJM, provided an announcement on the Reliability Products and Service Assessment initiative.
 - c. Reviewed the OC work plan.
 - d. Reviewed the proposed 2022 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. Review of Operating Metrics
Stephanie Monzon, PJM, reviewed the November 2021 PJM operating metrics slides. Metrics will include PJM's load forecast error, BAAL performance, and transmission / generation outage statistics.

Endorsements/Approvals

First Reading

4. Manual 38: Operations Planning
Liem Hoang, PJM, reviewed Manual 38 changes as a part of the periodic review.
The Operating Committee will be asked to endorse these changes at its next meeting.
5. Dynamic Rating Issue Charge and Problem Statement
Chris Callaghan, PJM, presented a first read of an Issue Charge and Problem Statement to add guidance and requirement language in Manual 01, Manual 03 and Manual 03A related to the implementation of a dynamic rating system in PJM. Following the discussion, PJM will review the PS/IC and bring it back for a second first read at the January Operating Committee.

6. Renewable Dispatchability Issue Charge and Problem Statement
Darrell Frogg, PJM, will present a first read of an Issue Charge and Problem Statement that will address the improvement of the dispatching process of renewable resources and increase forward-looking visibility. Following the discussion, PJM will review the PS/IC and bring it back for a second first read at the January Operating Committee.

Additional Items

7. Fuel Security Update
Natalie Tacka, PJM, provided an update on the Fuel Security initiative.
8. Fuel Requirements for Black Start Resources Update
Dan Bennett, PJM, provided a status update on FRBSR hiatus work.

Issue Tracking: [Fuel Requirements for Black Start Resources](#)
9. System Operations Subcommittee (SOS) Report
Becky Carroll, PJM, provided a summary of the most recent SOS meeting.
10. Primary Frequency Response Update
Ilyana Dropkin, PJM, provided an update on PJM primary frequency response performance.
11. Regulation Performance Update
Ilyana Dropkin, PJM, provided an update on PJM regulation market performance.
12. Synchronized Reserve Performance Update
Dave Kimmel, PJM, provided a review of recent synchronized reserve performance.
13. Unit Specific Parameters 2022/2023 DY Update
Tom Hauske, PJM, provided an update on Unit Specific Parameters for the 2022/2023 DY.
14. Weekly Fuel Inventory Update
Ray Lee, PJM, reviewed a new weekly data posting of RTO aggregated coal and oil inventory levels. The data will be updated weekly on the Operating Committee web page under the Weekly Fuel Inventory Data section.
15. Reliability Compliance Update
Becky Davis, PJM, provided an update on NERC, SERC, RF, and NAESB standards, and other pertinent regulatory and compliance information, and solicited feedback from the members on Reliability Compliance efforts.
16. Update on Illinois Clean Energy Jobs Act
Stephen Bennett and Chris Pilong, PJM, provided an update on the Illinois Clean Energy Jobs Act.

17. Winter Transmission Outages Review

Simon Tam, PJM, provided an overview of significant transmission outages for this winter season. It was requested for Simon to return with an update on the transmission outages at a future Operating Committee Meeting.

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
Aguilar	Fabiano	Strom Power, LLC	Other Supplier
Anastasio	Elizabeth	PJM Interconnection	Not Applicable
Anders	David	PJM Interconnection	Not Applicable
Baizman	Aaron	PJM Interconnection	Not Applicable
Baker	Jeff	Duke Energy Ohio, Inc.	Transmission Owner
Barmer	Mike	Dominion Virginia Power	Transmission Owner
Benckek	Jim	American Transmission Systems, Inc.	Transmission Owner
Bennett	Dan	PJM Interconnection	Not Applicable
Bennett	Stephen	PJM Interconnection	Not Applicable
Bernabeu	Emanuel	PJM Interconnection	Not Applicable
Berton	Tyler	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Bielak	Donnie	PJM Interconnection	Not Applicable
Bleiweis	Bruce	DC Energy LLC	Other Supplier
Boling	Andrew	Saracen Energy East LP	Other Supplier
Boyd	Chris	Dynegy Marketing & Trade LLC	Generation Owner
Boyle	Glen	PJM Interconnection	Not Applicable
Brady	George	Ohio Valley Electric Corp	Transmission Owner
Braerman	Ken	BGE	None
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Broussard	Emilie	PJM Interconnection	Not Applicable
Bryson	Mike	PJM Interconnection	Not Applicable
Callaghan	Christopher	PJM Interconnection	Not Applicable
Callen	Zachary	Illinois Commerce Commission	None
Capra	Carlo	ITC Interconnection LLC	Transmission Owner
Carmean	Gregory	Organization of PJM States, Inc. (OPSI)	Not Applicable

Carroll	Rebecca	PJM Interconnection	Not Applicable
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chen	Hong	PJM Interconnection	Not Applicable
Christopher	Mahila	Public Utilities Commission of Ohio	None
Chu	George	PJM Interconnection	Not Applicable
Croop	Danielle	PJM Interconnection	Not Applicable
Dajewski	Paul	PJM Interconnection	Not Applicable
D'Alessandris	Lou	FirstEnergy Corporation	Transmission Owner
D'Antonio	Philip	PJM Interconnection	Not Applicable
Davis	Elizabeth	PJM Interconnection	Not Applicable
De La Mora	Lou	Strom Power LLC	Other Supplier
Derin	Bilge	PJM Interconnection	Not Applicable
Dolan	James	PJM Interconnection	Not Applicable
Downs	Gere	PJM Interconnection	Not Applicable
Dropkin	Ilyana	PJM Interconnection	Not Applicable
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Dumitriu	Nick	PJM Interconnection	Not Applicable
Fabiano	Janell	PJM Interconnection	Not Applicable
Fan	Zhenyu	PJM Interconnection	Not Applicable
Farhat	Michelle	PJM Interconnection	Not Applicable
Fazio	Danielle	Noble Americas Gas & Power Corp.	Other Supplier
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
Foster Cronin	Denise	East Kentucky Power Cooperative, Inc.	Transmission Owner
Frogg	Darrell	PJM Interconnection	Not Applicable
Gates	Terry	Appalachian Power Company (AEP Generation)	Transmission Owner
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Grear	Mark	Exelon Generation Co., LLC	Generation Owner
Greiner	Gary	PSEG Energy Resources & Trade LLC	Other Supplier
Grimes	Jordan	Morningstar Commodity Data	None
Guntle	Vince	American PowerNet Management, L.P.	End Use Customer
Hammack	Matthew	PPL Electric Utilities Corporation	Transmission Owner
Haque	Asim	PJM Interconnection	Not Applicable

Hauske	Tom	PJM Interconnection	Not Applicable
Hepplewhite	Peter	Wrigley Capital LLC	Other Supplier
Hislop	Dave	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
Horning	Lynn	Customized Energy Solutions, Ltd.	None
Horstmann	John	Dayton Power & Light Company	Transmission Owner
Hsia	Eric	PJM Interconnection	Not Applicable
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
Iler	Art	Indiana Office of Utility Consumer Counsel	End Use Customer
James	Solon	DC Energy	Other Supplier
Janicki	Diane	Boston Energy Trading & Marketing, LLC	Other Supplier
Jardot	Gina	NRG Power Marketing, LLC	Generation Owner
Jeong	Hyo	DC Energy	Other Supplier
Johnson	Carl	Customized Energy Solutions, Ltd.	None
Johnston	Dave	Indiana Utility Regulatory Commission	None
Kazerooni	Hamid	PJM Interconnection	Not Applicable
Keegan	Jack	PJM Interconnection	Not Applicable
Kelley	Ryan	Duke Energy Ohio, Inc	Transmission Owner
Kelly	Stephen	Brookfield Renewable Trading and Marketing L.P.	Other Supplier
Kenney	Susan	PJM Interconnection	Not Applicable
Kent	Janessa	Duquesne Light Company	Transmission Owner
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
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
Lai	Erin	PJM Interconnection	Not Applicable
Lake	David	American Transmission Systems, Inc.	Transmission Owner
LaRocque	Matt	PJM Interconnection	Not Applicable
Lee	Ray	PJM Interconnection	Not Applicable
Lowe	Connie	Dominion Virginia Power	None
Mabry	David	McNees Wallace & Nurick LLC	None
Mali	Gizella	PJM Interconnection	Not Applicable

Mathew	Lagy	PJM Interconnection	Not Applicable
Matuszak	Alex	UGI Energy Services, LLC	Other Supplier
McGlynn	Paul	PJM Interconnection	Not Applicable
McGuire	Bobby	Dominion Virginia Power	Transmission Owner
Midgley	Sharon	Exelon Business Services Company, LC	Transmission Owner
Militello	Nikki	PJM Interconnection	Not Applicable
Monzon	Stephanie	PJM Interconnection	Not Applicable
Neubrandner	Kerry	DC Energy Mid-Atlantic, LLC	Other Supplier
Nice	Ryan	PJM Interconnection	Not Applicable
Nix	Emma	Jersey Green Energy LLC	Other Supplier
Okenfuss	James	Savion, LLC	None
Olaley	Michael	PJM Interconnection	Not Applicable
Ondayko	Brock	AEP Energy Partners, Inc. (AEP Gen Resources)	Transmission Owner
Pakela	Gregory	DTE Energy Trading, Inc.	Other Supplier
Peebles	Andy	Saracen Energy East LP	Other Supplier
Pilong	Christopher	PJM Interconnection	Not Applicable
Pilong	Melissa	PJM Interconnection	Not Applicable
Pincus	Steve	PJM Interconnection	Not Applicable
Poulos	Greg	CAPS	None
Price	Mark	DC Energy Mid-Atlantic, LLC	None
Procuriar	Jason	Buckeye Power, Inc.	Electric Distributor
Rainey	John	Northern Virginia Electric Cooperative	Electric Distributor
Robinson	Becky	Vistra Energy Marketing, L.P.	Other Supplier
Rocha-Garrido	Patricio	PJM Interconnection	Not Applicable
Rodriguez	Tomas	OPSI	None
Rohrbach	John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rosenthal	Peter	Energy Aspects	Other Supplier
Sasser	Jonathan	Customized Energy Solutions, Ltd.	None
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Scheirer	Alex	PJM Interconnection	Not Applicable
Schroeder	Connie	Dominion Virginia Power	Transmission Owner
Schroeder	Connie	Dominion Virginia Power	None
Schweizer	David	PJM Interconnection	Not Applicable
Sells	Scott	East Kentucky Power Cooperative, Inc	Transmission Owner
Shields	Jeffery	PJM Interconnection	Not Applicable
Silveira	Fabiano	Strom Power LLC	Other Supplier
Sock	Bryan	PSEG Energy Resources & Trade LLC	Other Supplier

Souder	Michelle	PJM Interconnection	Not Applicable
Squibb	Bill	Ohio Valley Electric Corp	Transmission Owner
Stack	James	Duquesne Light Company	Transmission Owner
Stanisz	Mark	PJM Interconnection	Not Applicable
Stefanowicz	Vince	PJM Interconnection	Not Applicable
Stemetzki	Mike	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
Sweeney	Rory	GT Power Group	None
Tacka	Natalie	PJM Interconnection	Not Applicable
Tam	Simon	PJM Interconnection	Not Applicable
Terranova	Christopher	PJM Interconnection	Not Applicable
Trost	Jason	Macquarie Energy LLC	Other Supplier
Ward	Mike	PJM Interconnection	Not Applicable
Whited	Mike	DC Energy	None
Whitehead	Jeff	GT Power Group	None
Widom	Stuart	PJM Interconnection	Not Applicable
Wolfe	Lauren	Cogentrix	
Wilder	Shane	PJM Interconnection	Not Applicable
Yoder	Michael	RTO Insider	None
Zheng	Yu	Saracen Energy East LP	Other Supplier
Zimbaro	Paul	Merrill Lynch Commodities	Other Supplier

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.
January 13, 2022	9 a.m.	WebEx	January 3, 2022	January 6, 2022
February 10, 2022	9 a.m.	WebEx	January 31, 2022	February 3, 2022
March 10, 2022	9 a.m.	WebEx	February 28, 2022	March 3, 2022
April 14, 2022	9 a.m.	WebEx	April 4, 2022	April 7, 2022
May 12, 2022	9 a.m.	WebEx	May 2, 2022	May 5, 2022
June 9, 2022	9 a.m.	WebEx	May 30, 2022	June 2, 2022

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:

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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>	

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