

**Operating Committee**  
**WebEx Only**  
**November 4, 2021**  
**9:00 a.m. – 2:00 p.m. EDT**

## 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 the draft minutes from the October 7th OC meeting. **The Committee approved the draft minutes from the October 7, 2021 Operating Committee meeting with 0 objections and 0 abstentions.**
  - b. 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. Review of Operating Metrics  
Stephanie Monzon, PJM, reviewed the October 2021 PJM operating metrics slides. Metrics will include PJM's load forecast error, BAAL performance, and transmission / generation outage statistics.

## Endorsements/Approvals

4. Manual 03: Transmission Operations  
Dean Manno, PJM, reviewed updates to Manual 3: Transmission Operations as a part of the periodic review. **The Operating Committee endorsed the changes to Manual 03 with 0 objections and 0 abstentions**
5. Manual 10: Pre-Scheduling Operations  
Vince Stefanowicz, PJM, reviewed updates to Manual 10: Pre-Scheduling Operations as a part of the periodic review.  
**The Operating Committee endorsed the changes to Manual 10 with 0 objections and 0 abstentions.**
6. Manual 14D: Generator Operational Requirements  
Vince Stefanowicz, PJM, reviewed updates to Manual 14D: Generator Operational Requirements as a part of the periodic review.  
**The Operating Committee endorsed the changes to Manual 14D with 0 objections and 0 abstentions.**

7. Manual 13: Emergency Operations

Brian Oakes, PJM, reviewed updates to Manual 13: Emergency Operations as part of the periodic review.

**The Operating Committee endorsed the changes to Manual 13 with 0 objections and 0 abstentions.**

8. Day Ahead Schedule Reserve (DASR) Update

David Kimmel, PJM, reviewed preliminary proposed changes to the 2022 Day Ahead Scheduling Reserve (DASR) requirement.

**The Operating Committee endorsed the preliminary proposed changes to the 2022 Day Ahead Scheduling Reserve requirement with 0 objections and 0 abstentions.**

9. Winter Weekly Reserve Target Update

Patricio Rocha Garrido, PJM, reviewed the results of the 2021/22 Winter Weekly Reserve Target (WWRT) analysis.

**The Operating Committee endorsed the results of the 2021/22 Winter Weekly Reserve Target analysis with 0 objections and 0 abstentions.**

10. Synchronous Reserve Deployment Stakeholder Initiative

a. Ilyana Dropkin, PJM, provided a summary of the Synchronous Reserve Deployment Stakeholder Initiative.

b. Mike Zhang, PJM, provided a second read of the PJM package that was developed in the SRDTF.

c. Siva Josyula, IMM, provided a second read of the IMM package that was developed in the SRDTF.

**The committee endorsed the PJM proposal with 164 (72%) in favor, 64 (28%) opposed, and 2 abstentions.**

**A second vote showed stakeholders preferred the PJM proposal over status quo with 145 (70%) in favor, 64 (30%) opposed, and 2 abstentions.**

**The committee did not endorse the IMM proposal with 51 (24%) in favor, 159 (76%) opposed, and 2 abstentions.**

**A second vote showed stakeholders did not prefer the IMM proposal over status quo with 37 (18%) in favor, 169 (82%) opposed, and 2 abstentions.**

**The PJM proposal will move on for a first read at the November MRC.**

## First Reading

## Informational Updates

11. System Operations Subcommittee (SOS) Report

Becky Carroll, PJM, provided a summary of the most recent SOS meeting.

12. Manual 13 Maximum Emergency Implementation Details

Chris Pilong, PJM, reviewed the implementation details associated with the temporary Maximum Emergency process in PJM Manual 13 Section 6.4 that was approved at the October 22, 2021 MRC.

13. Reliability Products and Services Assessment

Chris Pilong, PJM, and Alex Scheirer, PJM, presented background on the Reliability Products and Services assessment that is to be performed by the OC and provide initial education on related studies and analysis that can contribute to the assessment.

14. Operations Assessment Task Force Review (OATF)

Todd Bickel, PJM, provided a review the OATF winter 2021/22 study.

15. Unit Specific Parameters 2022/2023 DY Update

Tom Hauske, PJM, provided an update on Unit Specific Parameters for the 2022/2023 DY.

16. Winter Gas Electric Coordination and Fuels Review

Brian Fitzpatrick, PJM, provided an overview of winter Gas Electric Coordination activities and a look at current key fuel markets.

17. NERC Lessons Learned

Paul Dajewski, PJM, reviewed the latest posted NERC Lessons Learned reports.

18. 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.

## 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
Benckek	Jim	American Transmission Systems, Inc.	Transmission Owner
Bennett	Dan	PJM Interconnection	Not Applicable
Berton	Tyler	AEP Appalachian Transmission Company, Inc.	Transmission Owner

Bickel	Todd	PJM Interconnection	Not Applicable
Bickerstaff	Dean	Hartree Partners, LP	Other Supplier
Bleiweis	Bruce	DC Energy LLC	Other Supplier
Boyle	Glen	PJM Interconnection	Not Applicable
Braerman	Ken	BGE	None
Bresler	Stu	PJM Interconnection	Not Applicable
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Brown	Rich	PJM Interconnection	Not Applicable
Bruno	Patrick	PJM Interconnection	Not Applicable
Bryson	Mike	PJM Interconnection	Not Applicable
Callaghan	Christopher	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
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
Corder	Nick	Commonwealth Chesapeake Company, LLC	Generation Owner
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
Davis	Jim	Dominion Energy Generation Marketing, Inc.	Generation Owner
DeVita	Thomas	PJM Interconnection	Not Applicable
Domian	Christin	Duquesne Light Company	Transmission Owner
Dropkin	Ilyana	PJM Interconnection	Not Applicable
Dumitriu	Nick	PJM Interconnection	Not Applicable
Egan	Amanda	PJM Interconnection	Not Applicable
Egan	David	PJM Interconnection	Not Applicable
Fabiano	Janell	PJM Interconnection	Not Applicable
Fahr	Suzie	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
Filomena	Guy	Customized Energy Solutions, Ltd.	None
Fitzpatrick	Brian	PJM Interconnection	Not Applicable
Foladare	Kenneth	Geenex Solar LLC	Generation Owner

Forcum	David	Duke Energy Ohio, Inc.	Transmission Owner
Foster	Tom	PJM Interconnection	Not Applicable
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
Gillam	Henry	Hartree Partners, LP	Other Supplier
Grear	Mark	Exelon Generation Co., LLC	Generation Owner
Greening	Michele	PJM Interconnection	Not Applicable
Greiner	Gary	PSEG Energy Resources & Trade LLC	Other Supplier
Grimes	Jordan	Morningstar Commodity Data	None
Guignet	Douglas	PJM Interconnection	Not Applicable
Hagaman	Derek	GT Power Group	None
Hammack	Matthew	PPL Electric Utilities Corporation	Transmission Owner
Hanebuth	Michele	Consolidated Edison Company of New York, Inc	Transmission Owner
Hastings	David	Market Interconnection Consulting Services (MICS)	None
Hatfield	Jeremy	Old Dominion Electric Cooperative	Electric Distributor
Hauske	Tom	PJM Interconnection	Not Applicable
Heisey	Brad	Wolf Hills Energy, LLC	Generation Owner
Herel	Suzanne	PJM Interconnection	Not Applicable
Hoatson	Tom	West Deptford Energy, LLC	Generation Owner
Hoey	Edward	PJM Interconnection	Not Applicable
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
Huff	Alex	Aces Power Marketing Inc.	None
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Hunter	Andy	Metropolitan Edison Company	Electric Distributor
Hyatt	Earl	Monitoring Analytics	None
Hyzinski	Tom	GT Power Group, LLC	None
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

Johnston	Dave	Indiana Utility Regulatory Commission	None
Jones	Ryan	Allegheny Electric Cooperative, Inc.	Electric Distributor
Josyula	Siva	Monitoring Analytics	None
Kazerooni	Hamid	PJM Interconnection	Not Applicable
Keenan	Matthew	Jpower USA	None
Kenney	Susan	PJM Interconnection	Not Applicable
Kimmel	David	PJM Interconnection	Not Applicable
Kogut	George	New York Power Authority	Other Supplier
Krawczyk	Leslie	ReliabilityFirst	None
LaRocque	Matt	PJM Interconnection	Not Applicable
Leasure	Jill	Keystone Projects	None
Lee	Ray	PJM Interconnection	Not Applicable
Levitt	Andrew	PJM Interconnection	Not Applicable
Liang-Nicol	Cecilia	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Lieberman	Steve	American Municipal Power, Inc.	Electric Distributor
Lockwood	Dan	PJM Interconnection	Not Applicable
Mabry	David	McNees Wallace & Nurick LLC	None
Mali	Gizella	PJM Interconnection	Not Applicable
Manno	Dean	PJM Interconnection	Not Applicable
McGlynn	Paul	PJM Interconnection	Not Applicable
Mcquire	Bobby		
McLavery	Megan	PJM Interconnection	Not Applicable
McNeil	Justin	Office of the Attorney General, Kentucky	End-use customer
Mendelsohn	Mark	Noble Americas Gas & Power Corp.	Other Supplier
Midgley	Sharon	Exelon Business Services Company, LC	Transmission Owner
Militello	Nikki	PJM Interconnection	Not Applicable
Mohler	Tina	PJM Interconnection	Not Applicable
Monzon	Stephanie	PJM Interconnection	Not Applicable
Oakes	Brian	PJM Interconnection	Not Applicable
Okenfuss	James	Savion, LLC	None
Olinger	Robert	Keystone Projects	None
Ondayko	Brock	AEP Energy Partners, Inc. (AEP Gen Resources)	Transmission Owner
Philips	Marjorie	Direct Energy Business Marketing, LLC	Other Supplier
Pilong	Christopher	PJM Interconnection	Not Applicable
Pilong	Melissa	PJM Interconnection	Not Applicable
Price	Mark	DC Energy Mid-Atlantic, LLC	None

Rainey	John	Northern Virginia Electric Cooperative	Electric Distributor
Rocha-Garrido	Patricio	PJM Interconnection	Not Applicable
Rodriguez	Tomas	OPSI	None
Rohrbach	John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Ruck	Andrew	PSEG Energy Resources & Trade LLC	Other Supplier
Sasser	Jonathan	Customized Energy Solutions, Ltd.	None
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Scheirer	Alex	PJM Interconnection	Not Applicable
Schmitt	Jeffrey	PJM Interconnection	Not Applicable
Schroeder	Connie	Dominion Virginia Power	None
Schweizer	David	PJM Interconnection	Not Applicable
Shields	Jeffery	PJM Interconnection	Not Applicable
Sillin	John	The Federal Energy Regulatory Commission	None
Skumanich	Bill	RTR Energy Solutions	None
Sotkiewicz	Paul	E-Cubed Policy Associates	Not Applicable
Souder	Michelle	PJM Interconnection	Not Applicable
Squibb	Bill	Ohio Valley Electric Corp	Transmission Owner
Stack	James	Duquesne Light Company	Transmission Owner
Stadlmeyer	Rebecca	PJM Interconnection	Not Applicable
Stair	Kyle	UGI Utilities, Inc.	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
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
Swalwell	Brad	Tangent Energy Solutions, Inc.	Other Supplier
Sweeney	Rory	GT Power Group	None
Tacka	Natalie	PJM Interconnection	Not Applicable
Thomas	Jack	PJM Interconnection	Not Applicable
Tribulski	Jen	PJM Interconnection	Not Applicable
Vayda	Brian	Borough of Park Ridge, NJ	Electric Distributor
Wadsworth	Joe	Vitol Inc.	Other Supplier

Ward	Mike	PJM Interconnection	Not Applicable
Warshel	Kim	PJM Interconnection	Not Applicable
Weathers	Brian	PJM Interconnection	Not Applicable
Whitehead	Jeff	GT Power Group	None
Wilder	Shane	PJM Interconnection	Not Applicable
Yoder	Michael	RTO Insider	None
Zhang	Michael	PJM Interconnection	Not Applicable

## 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.
December 02, 2021	9 a.m.	WebEx	November 22, 2021	November 24, 2021

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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.

### 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>To enter the question queue (does not work during a vote)</p> </div> <div style="text-align: center;">  <p>To be removed from the question queue</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>To signal for PJM support staff assistance</p> </div>	<p>Please log in to the voting application at <a href="http://voting.pjm.com">voting.pjm.com</a>, 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>Yes</p> </div> <div style="text-align: center;">  <p>No</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>Abstain</p> </div> <div style="text-align: center;">  <p>To signal for PJM support staff assistance</p> </div> </div>
<p><b>Asking A Question</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>Questions are taken during the meeting when natural breaks occur and are asked in the order they are received.</li> </ul>	
<p><b>Linking Teleconference Connection to Webex</b></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>	

<b>Join a Meeting</b>	<ol style="list-style-type: none"> <li>Join meeting in the Webex desktop client</li> <li>Enter name (<i>First and Last*</i>) and corporate email</li> <li>Call in to the operator-assisted number</li> </ol>
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 Visit [learn.pjm.com](http://learn.pjm.com), an easy-to-understand resource about the power industry and PJM's role.