

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


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

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

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 Interconnection	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. 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:

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><b>*1</b></p> <p>To enter the question queue (does not work during a vote)</p> </div> <div style="text-align: center;"> <p><b>*2</b></p> <p>To be removed from the question queue</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p><b>*0</b></p> <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><b>*7</b></p> <p>Yes</p> </div> <div style="text-align: center;"> <p><b>*8</b></p> <p>No</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>*9</b></p> <p>Abstain</p> </div> <div style="text-align: center;"> <p><b>*0</b></p> <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>	

<h2>Join a Meeting</h2>	<ol style="list-style-type: none"> <li>1. Join meeting in the Webex desktop client</li> <li>2. Enter name (<i>First and Last*</i>) and corporate email</li> <li>3. Call in to the operator-assisted number</li> </ol>
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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](http://learn.pjm.com), an easy-to-understand resource about the power industry and PJM's role.