

Operating Committee

PJM Conference and Training Center

March 12, 2020

9:00 a.m. – 10:30 a.m. EPT

Administration (9:00-9:10)

1. Ms. Danielle Croop, PJM, provided announcements; reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation, and the WebEx Participant Identification Requirement.
 - a. The Operating Committee (OC) agenda for this meeting was approved.
 - b. The draft minutes of the February 6 OC meeting were approved by acclamation with 0 objections and 0 abstentions.
 - c. The OC work plan was reviewed.
2. Administration Updates
 - a. Mr. Scott Heffentrager, PJM, provided a brief security update on PJM's security plan around the Coronavirus.
 - b. Mr. Paul McGlynn, PJM, provided a review of the recent NERC Announcement -- NERC Takes Steps to Prevent Coronavirus Impacts

[NERC Announcement](#)

[NERC Level 2 Alert](#)

- c. Mr. Steve Pincus, PJM, provided an informational update regarding *IMPA and City of Lawrenceburg, Indiana v. PJM, AEP, and Lawrenceburg Power*, Station Power Complaint.

Review of Operations (9:10- 9:20)

3. Review of Operating Metrics

Ms. Stephanie Monzon, PJM, reviewed the February 2020 PJM operating metrics slides. Metrics will include PJM's load forecast error, BAAL performance, transmission / generation outage statistics, and Perfect Dispatch historical performance.

Endorsements/Approvals (9:20- 9:35)

4. PJM Manuals
 - a. Manual 37 Changes

Mr. Jordan Shenk, PJM, reviewed the proposed changes to PJM Manual 37: Reliability Coordination. The Operating Committee endorsed the proposed changes by acclamation with 0 objections and 0 abstentions.

b. Manual 13 Changes

Ms. Rebecca Carroll, PJM, reviewed the proposed changes to PJM Manual 13: Emergency Operations. The Operating Committee endorsed the proposed changes by acclamation with 0 objections and 0 abstentions.

c. Manual 12 Changes

Ms. Rebecca Carroll, PJM, reviewed the proposed changes to PJM Manual 12: Balancing Operations. The Operating Committee endorsed the proposed changes by acclamation with 0 objections and 0 abstentions.

First Reading

Tool and Informational Updates (9:35 – 10:30)

5. System Operations Subcommittee (SOS) Report
Ms. Rebecca Carroll, PJM, provided a summary of the most recent SOS meeting.
6. Primary Frequency Response Update
Ms. Elizabeth Davis, PJM, provided an update on PJM primary frequency response performance.
7. Synchronized Reserve Update
Mr. David Kimmel, PJM, provided a review of recent synchronized reserve performance.
8. Manual 03 Update
Mr. Lagy Mathew, PJM, provided a review of Manual 03 updates and a proposal to move Section 5 to a new Manual 03B. This agenda item will be brought back to the April meeting for more discussion.
9. Applications of Synchro-Phasor Data
Mr. Shaun Murphy, PJM, reviewed the recent activities around PMUs at PJM. The OC will ask the PC to review PJM's voluntary PMU Placement Plan and consider formalizing the plan into the RTEP planning process. This could include a requirement for new substations and major construction projects to include PMU installation for bus voltage and line flow monitoring to improve PMU observability.
10. Load Forecast Model Performance
Education on the performance of PJM's Neural Network load forecast model was postponed and will be reviewed at the April meeting.
11. Reliability Compliance Update
Mr. Preston Walker, PJM, provided an update on NERC, SERC and RFC standards, and other pertinent regulatory and compliance information.
12. Special OC/MIC Fuel Requirements for Black Start Resources Update

Ms. Janell Fabiano, PJM, provided an update on the status of the Special OC/MIC Fuel Requirements for Black Start Resources. A recommendation will be going to the March 26 MRC to take a 4-8 month hiatus to perform additional analysis around restoration.

13. Generation Cold Weather Survey Update

Mr. Vince Stefanowicz, PJM, provided an update on the current 2019 Cold Weather Operating Limits Survey, reminding stakeholder the survey closes on April 1, 2020.

Attendance (Conference Call)

Last Name	First Name	Company Name	Sector
Phillips (Chair)	Darlene	PJM Interconnection	Not Applicable
Croop (Secretary)	Danielle	PJM Interconnection	Not Applicable
Ament	Todd	Cube Hydro Partners, LLC	Generation Owner
Benchek	Jim	FirstEnergy Solutions Corp	Transmission Owner
Bielak	Donnie	PJM Interconnection	Not Applicable
Boyle	Glen	PJM Interconnection	Not Applicable
Brady	George	Ohio Valley Electric Corporation	Transmission Owner
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Bryson	Michael	PJM Interconnection	Not Applicable
Capra	Carlo	ITC Interconnection LLC	Transmission Owner
Carroll	Rebecca	PJM Interconnection	Not Applicable
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chintapalli	Raj	BP	None
Christopher	Mahila	Public Utilities Commission of Ohio	None
Chu	George	PJM Interconnection	Not Applicable
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Crystle	Gil	UGI Development Company	Generation Owner
Dajewski	Paul	PJM Interconnection	Not Applicable
Davis	Elizabeth	PJM Interconnection	Not Applicable
DeGiusto	Vince	UGI Utilities, Inc.	Transmission Owner
DeLosa	Joseph	New Jersey Board of Public Utilities	None
Domian	Christin	Duquesne Light Company	None
Downs	Jere	PJM Interconnection	Not Applicable
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fabiano	Janell	PJM Interconnection	Not Applicable

Filomena	Guy	Galt Power Inc.	Other Supplier
Fitzpatrick	Brian	PJM Interconnection	Not Applicable
Foladare	Kenneth	Geenex Solar LLC	Generation Owner
Foley	Imelda	Environmental Defense Fund	None
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Frogg	Darrell	PJM Interconnection	Not Applicable
Garnett	Bryan	Duke Energy	None
Gates	Terry	Appalachian Power Company (AEP Generation)	Transmission Owner
Genuario	Gabrielle	PJM Interconnection	Not Applicable
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Gear	Mark	Exelon Generation Co., LLC	Generation Owner
Greiner	Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Guntle	Vince	American PowerNet Management, L.P.	End-Use Customer
Hammack	Matthew	PPL Electric Utilities Corp. dba PPL Utilities (NYPA)	Transmission Owner
Hanebuth	Michele	Consolidated Edison Company of New York, Inc. (CE to PS Wheel)	Transmission Owner
Hanser	Erik	Michigan Public Service Commission	None
Hastings	David	Other	None
Hauske	Thomas	PJM Interconnection	Not Applicable
Heidorn	Richard	RTO Insider	None
Hoang	Liem	PJM Interconnection	Not Applicable
Hoatson	Tom	West Deptford Energy, LLC	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horning	Lynn Marie	Customized Energy Solutions, Ltd.	None
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hsia	Eric	PJM Interconnection	Not Applicable
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Hyzinski	Tom	GT Power Group	None
Janicki	Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Johnson	Carl	Customized Energy Solutions, Ltd.	None
Johnston	David	Indiana Utility Regulatory Commission	None
Kimmel	David	PJM Interconnection	Not Applicable
Kirk	Ryan	Appalachian Power Company (AEP Generation)	Transmission Owner
Kogut	George	New York Power Authority	Other Supplier
LOWE	CONNIE	Dominion Virginia Power	None
Mabry	David	McNees Wallace & Nurick LLC	None
Matuszak	Alex	UGI Energy Services, LLC	None
McGlynn	Paul	PJM Interconnection	Not Applicable

Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Monzon	Stephanie	PJM Interconnection	Not Applicable
Mulhern	Joseph	PJM Interconnection	Not Applicable
Murphy	Shaun	PJM Interconnection	Not Applicable
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
O'Hara	Christopher	PJM Interconnection	Not Applicable
Olaleye	Michael	PJM Interconnection	Not Applicable
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Patel	Anita	PJM Interconnection	Not Applicable
Pilong	Christopher	PJM Interconnection	Not Applicable
Pincus	Steven	PJM Interconnection	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.	None
Sauriol	Dennis	AEP Ohio Transmission Company, Inc.	Transmission Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Schweizer	David	PJM Interconnection	Not Applicable
Sells	Scott	East Kentucky Power Cooperative, Inc.	Transmission Owner
Shenk	Jordan	PJM Interconnection	Not Applicable
Singer	Chad	Trane Grid Services LLC	Other Supplier
Skumanich	Bill	RTR Energy Solutions LLC	None
Sotkiewicz	Paul	Other	None
Squibb	Bill	Ohio Valley Electric Corporation	Transmission Owner
Stack	James	Duquesne Light Company	Transmission Owner
Stefanowicz	Vincent	PJM Interconnection	Not Applicable
Stern	Alexander	Public Service Electric & Gas Company	Transmission Owner
Stone	Andy	Other	None
Strella	Lauren	PJM Interconnection	Not Applicable
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Sweeney	Rory	GT Power Group	None
Tam	Simon	PJM Interconnection	Not Applicable
Thomas	Henry	PJM Interconnection	Not Applicable
Toomey	Megan	Talen Energy Marketing, LLC	Generation Owner
Tribulski	Jennifer	PJM Interconnection	Not Applicable
Vitiello	Jacki	Dominion Virginia Power	None
Walker	Preston	PJM Interconnection	Not Applicable
Whitehead	Jeffrey	GT Power Group	None
Wisersky	Megan	Madison Gas & Electric Co.	None
Yoder	Michael	RTO Insider	None

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

April 16, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
May 14, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
June 4, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
July 9, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
August 6, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
September 3, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
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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Join a Meeting

1. Join meeting in the WebEx desktop client
2. Enter name (*First and Last**) and corporate email
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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