

Operating Committee Webex Only December 3, 2020 9:00 a.m. – 2:00 p.m. EPT

Administration (9:00-9:15)

- 1. Danielle Croop, PJM, provided announcements; review the Antitrust, Code of Conduct, Public Meetings/Media Participation, and the WebEx Participant Identification Requirement.
 - a. The draft minutes for the November 6th OC meeting were reviewed and approved.
 - b. The OC work plan was reviewed.
 - c. The 2021 OC work plan was reviewed.

d. Steve Pincus, PJM, reviewed FERC ER20-2759-000 Order on a waiver request from Dominion Energy

Review of Operations (9:15-9:30)

2. PJM COVID-19 Update

Paul McGlynn, PJM, provided an update on PJM's operations plan in response to COVID-19. <u>https://pjm.com/committees-and-groups/pandemic-coordination.aspx</u>

3. <u>Review of Operating Metrics</u>

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

Endorsements (9:30-11:00)

4. Black Start Unit Testing, CRF, Involuntary Termination, MTSL and Substitution Rules

a. Dr. Paul Sotkiewicz, Elwood Energy (motion) and Sharon Midgley, Exelon (second) reviewed the proposed amendments to the Black Start Issue Charge to remove retroactive application of proposed CRF changes. The amendments were approved by the Operating Committee with 151 (63%) in favor, 89 (37%) opposed, and 3 abstained.

With the amended issue charge, the Chair deemed the application of the CRF change to existing Black Start resources out of Scope. Dr. Joe Bowring, IMM, made the following changes to the IMM solution package to conform to the update Issue Charge: The updated CRF rates and commitment periods would apply only to new Black Start resources. An updated presentation has been posted to PJM.com to reflect these updates.

b. Becky Davis, PJM, reviewed the solution packages (PJM solution package, IMM solution package, PJM Option 1 solution package, and Dominion solution package) for the Black Start issue. The Operating Committee voted on these packages; **the PJM Option 1 package (83% in favor) will**



move forward to the MRC as the main motion, the Dominion package (82% in favor) will move forward as the secondary motion.

Dr. Paul Sotkiewicz requested that the non-binding poll on preference over status quo be taken on both the PJM Option 1 package and the Dominion package, Chair Phillips accepted this request and the non-binding poll was performed on each package.

Voting results were as follows:

- PJM solution package: 92 (43%) in favor, 122 (57%) opposed, 13 abstained
- IMM solution package: 16 (7%) in favor, 208 (93%) opposed, 4 abstained
- PJM Option 1 solution package: 187 (83%) in favor, 39 (17%) opposed, 2 abstained Prefer this package over status quo: 138 (70%) in favor, 60 (30%) opposed, 12 abstained
- Dominion solution package: 184 (82%) in favor, 40 (18%) opposed, 4 abstained Prefer this package over status quo: 163 (73%) in favor, 61 (27%) opposed, 1 abstained

Issue Tracking: Black Start

5. Manual 14D: Generation Changes

Natalie Tacka, PJM, reviewed Manual 14D changes associated with updates for the Public Distribution Microgrids as discussed in the DIRS. The Operating Committee endorsed the changes to Manual 14D with 0 objections and 0 abstentions.

 Manual 3: Transmission Operation Changes
 Manual 03 changes associated with the main motion, PJM/IMM Package, and the secondary motion,
 JPower Package, on stability limits as discussed in the MIC was removed from the December
 Operating Committee agenda. This item is deferred until after the vote moving forward to MRC.

First Reading (11:00-11:30)

- Manual 12: Balancing Operations Kevin Hatch, PJM, reviewed Manual 12 changes. The Operating Committee will be asked to endorse these changes at its next meeting.
- Manual 13: Emergency Operations Kevin Hatch, PJM, reviewed Manual 13 changes. The Operating Committee will be asked to endorse these changes at its next meeting.
- Manual 38: Operations Planning Liem Hoang, PJM, reviewed Manual 38 changes. The Operating Committee will be asked to endorse these changes at its next meeting.
- System Operations Subcommittee (SOS) Charter Review Paul Dajewski, PJM, reviewed the proposed charter update for the System Operations Subcommittee (SOS), The Operating Committee will be asked to endorse these changes at its next meeting.



 System Restoration Coordinators Subcommittee (SRCS) Sunset Proposal Brian Lynn, PJM, reviewed a proposal to sunset the System Restoration Coordinators Subcommittee (SRCS). The Operating Committee will be asked to endorse these changes at its next meeting.

Informational Update (11:30-14:00)

- 12. <u>System Operations Subcommittee (SOS) Report</u> Rebecca Carroll, PJM, provided a summary of the most recent SOS meeting.
- 13. <u>Emergency Procedures Update</u> Chidi Ofoegbu, PJM, provided a review of upcoming changes to Emergency Procedures.
- Manual 01 Attachment F Changes Bilge Derin, PJM, reviewed Manual 01 Attachment F changes associated with the expiration date of the plan for remote operations due to COVID 19.
- 15. <u>Solar-Battery Hybrid Update</u> Scott Baker, PJM DIRS Chair, provided an update on the solar-battery hybrid issue and associated operational items. <u>Issue Tracking: Solar Hybrids</u>
- <u>Unit Specific Parameter 2021/2022 DY Update</u> Tom Hauske, PJM, provided an update on Unit Specific Parameters for the 2021/2022 DY.
- 17. <u>Synchronous Reserves Update</u> David Kimmel, PJM, provided the quarterly update on synchronous reserve performance.
- 18. <u>NERC Lessons Learned</u> Donnie Bielak, PJM, reviewed two new NERC lessons learned.
- 19. <u>Reliability Compliance Update</u> Mark Kuras, PJM, provided an update on NERC, SERC and RFC standards, and other pertinent regulatory and compliance information.
- 20. <u>Emerging Technology Forum Roster Update</u> Natasha Holter, PJM, reviewed the ETF roster update and upcoming survey.

Attendance

Last Name	First Name	Company Name	Sector
Phillips (Chair)	Darlene	PJM Interconnection	Not Applicable



Croop (Secretary)	Danielle	PJM Interconnection	Not Applicable
Ainspan	Malcolm	Ainspan	None
Ament	Todd	Eagle Creek RE	None
Anders	David	PJM Interconnection	Not Applicable
Baker	Scott	PJM Interconnection	Not Applicable
Baker	Jeff	Duke Energy	None
Balascak	Andrew	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Barker	Jason	Exelon	Transmission Owner
Benchek	Jim	First Energy Solutions Corp	Transmission Owner
Bielak	Donnie	PJM Interconnection	Not Applicable
Bleiweis	Bruce	DC Energy	None
Bowring	Joe	Monitoring Analytics	None
Boyd	Chris	Dynegy Marketing & Trade, LLC (DECAM)	Generation Owner
Boyle	Glen	PJM Interconnection	Not Applicable
Braerman	Kenneth	Baltimore Gas and Electric Company (TO)	Transmission Owner
Briggs	Mark	Tenaska Power Services Co. (TPS 4)	Generation Owner
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Bryson	Michael	PJM Interconnection	Not Applicable
Cao	Roger	PJM Interconnection	Not Applicable
Capra	Carlo	ITC Interconnection LLC	Transmission Owner
Carmean	Gregory	OPSI	None
Carrier	Ron	Direct Energy	None
Carroll	Rebecca	PJM Interconnection	Not Applicable
Cerchio	Gerard	Monitoring Analytics	None
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chen	Hong	PJM Interconnection	Not Applicable
Ciabattoni	Joseph	PJM Interconnection	Not Applicable
Crystle	Gil	UGI None	



Dajewski	Paul	PJM Interconnection	Not Applicable
D'Alessandris	Louis	American Transmission Systems, Inc.	Transmission Owner
Davis	Elizabeth	PJM Interconnection	Not Applicable
Davis	James	Dominion Energy Generation Marketing, Inc.	Generation Owner
DeGiusto	Vince	UGI	None
Derin	Bilge	PJM Interconnection	Not Applicable
DeVita	Thomas	PJM Interconnection	Not Applicable
Dillon	Matt	UGI	None
Dolan	James	PJM Interconnection	Not Applicable
Domian	Christin	Duquesne Light Company	Transmission Owner
Downs	Jere	PJM Connect	None
Dropkin	Ilyana	PJM Interconnection	Not Applicable
Egan	Amanda	PJM Interconnection	Not Applicable
Elkins	Rachel	American Transmission Systems, Inc.	Transmission Owner
Fabiano	Janell	PJM Interconnection	Not Applicable
fan	zhenyu	PJM Interconnection	Not Applicable
Filomena	Guy	Customized Energy Solutions, Ltd.	None
Fitch	Neal	NRG Power Marketing, LLC	Generation Owner
Fitzpatrick	Brian	PJM Interconnection	Not Applicable
Foladare	Kenneth	Geenex Solar LLC	Generation Owner
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Frogg	Darrell	PJM Interconnection	Not Applicable
Gagen	Rod	Dominion Virginia Power	Transmission Owner
Gates	Terry	Appalachian Power Company (AEP Generation)	Transmission Owner
Genuario	Gabrielle	PJM Interconnection	Not Applicable
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Greening	Michele	PJM Interconnection	Not Applicable



Greiner	Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Guntle	Vince	American PowerNet Management, L.P. End-Use Cust	
Hanebuth	Michele	ORU	None
Hanser	Erik	Michigan PUC	None
Hastings	David	None	None
Hatch	Kevin	PJM Interconnection	Not Applicable
Hauske	Thomas	PJM Interconnection	Not Applicable
Heinle	Frederick	Office of the Peoples Counsel	None
Herel	Suzanne	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
Hoke	Michael	PJM Interconnection	Not Applicable
Holter	Natasha	PJM Interconnection	Not Applicable
Horning	Lynn Marie	Customized Energy Solutions, Ltd.	None
Horstmann	John	AES	None
Hudis	Gabriella	Gabel Associates	None
Hunter	Andrew	First Energy Solutions Corp	Transmission Owner
Hyzinski	Tom	GT Power Group, LLC	None
Janicki	Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Johnson	Carl	Customized Energy Solutions, Ltd.	None
Kauffman	Brian	Enernoc	None
Keenan	Matthew	Elwood Energy, LLC	Generation Owner
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP (BSMH)	Other Supplier
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner



Kimmel	David	PJM Interconnection	Not Applicable
Kogut	George	New York Power Authority	Other Supplier
Krawczyk	Leslie	Other	None
Kuras	Mark	PJM Interconnection	Not Applicable
Lee	Ray	PJM Interconnection	Not Applicable
Levitt	Andrew	PJM Interconnection	Not Applicable
Libbos	Robin	Allegheny Power (MonPwr Gen)	Transmission Owner
Lynn	Brian	PJM Interconnection	Not Applicable
Mabry	David	McNees Wallace & Nurick LLC	None
Mathew	Lagy	PJM Interconnection	Not Applicable
Matuszak	Alex	UGI Energy Services, LLC	Other Supplier
McClelland	Maura	Ohio PUC	None
McGlynn	Paul	PJM Interconnection	Not Applicable
Mcguire	Bobby	Dominion Energy	Transmission Owner
McLaverty	Megan	PJM Interconnection	Not Applicable
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Monzon	Stephanie	PJM Interconnection	Not Applicable
Morelli	Lisa	PJM Interconnection	Not Applicable
Mulhern	Joseph	PJM Interconnection	Not Applicable
Murphy	Shaun	PJM Interconnection	Not Applicable
Ofoegbu	Chidiogo	PJM Interconnection	Not Applicable
O'Leary	Christopher	PSEG Energy Resources and Trade LLC	Other Supplier
Ondayko	Brock	AEP Energy Partners, Inc. (AEP Gen Resources)	Transmission Owner
O'Neill	Jack	PJM Interconnection	Not Applicable
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Pilong	Christopher	PJM Interconnection	Not Applicable
Pincus	Steve	PJM Interconnection	Not Applicable
Poulos	Greg	PJM Committee Voting Generic Account	None
Robinson	Becky	vistra energy	None



Rodriguez	Tomas	Organization of PJM States, Inc.	None
Rohrbach	John	Wabash Valley Power Association, Inc.	Electric Distributor
Rooney	Alexa	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.	None
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Schweizer	David	PJM Interconnection	Not Applicable
Sells	Scott	East Kentucky Power Cooperative, Inc.	Transmission Owner
Sillin	John	FERC	None
Sotkiewicz	Paul	E-Cubed Policy Associates	None
Souder	Michelle	PJM Interconnection	Not Applicable
Squibb	Bill	Ohio Valley Electric Corporation	Transmission Owner
Stack	James	Duquesne Light Company	None
Stefanowicz	Vincent	PJM Interconnection	Not Applicable
Stern	Alexander	Public Service Electric & Gas Company	Transmission Owner
Stone	Andy	Other	None
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Sullivan	James	Hudson Transmission Partners, 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, LLC	None
Tacka	Natalie	PJM Interconnection	Not Applicable
Taylor	William	Elwood Energy, LLC	Generation Owner
Thomas	Henry	PJM Interconnection	Not Applicable



Thomas	Sharon	Energy Storage	None
Tyler	Catherine	Monitoring Analytics	None
Whitehead	Jeffrey	GT Power Group, LLC	None
Wisersky	Megan	Madison Gas & Electric Co.	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

System Restoration Coordinators Subcommittee (SRCS): SRCS Website

Fuel Requirements for Black Start Resources: Fuel Reqt. for Black Start Resources Issue Tracker

Future Meeting Dates

January 13, 2021	9:00 a.m.	WebEx
February 11, 2021	9:00 a.m.	WebEx
March 11, 2021	9:00 a.m.	WebEx
April 08, 2021	9:00 a.m.	WebEx
May 14, 2021	9:00 a.m.	WebEx
June 10, 2021	9:00 a.m.	WebEx
July 15, 2021	9:00 a.m.	TBD/ WebEx
August 12, 2021	9:00 a.m.	TBD/ WebEx
September 10, 2021	9:00 a.m.	TBD / WebEx
October 07, 2021	9:00 a.m.	TBD / WebEx
November 04, 2021	9:00 a.m.	TBD / WebEx
December 02, 2021	9:00 a.m.	TBD / WebEx

Author: D. Croop

Antitrust:

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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.

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During a Meeting		During an Acclamation Vote	
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Linking Teleconference Connection to Webex 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.			
 Join a Meeting 1. Join meeting in the Webex desktop client 2. Enter name (<i>First and Last*</i>) and corporate email 3. Call in to the operator-assisted number 			
*Note: Anonymous users or those using false usernames or emails will be			

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