



Market Implementation Committee PJM Conference & Training Center, Audubon, PA May 15, 2019 9:00 a.m. - 2:00 p.m. EPT

Administration

1. Ms. Bhavana Keshavamurthy and Ms. Chantal Hendrzak provided announcements; reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirement.

The Committee approved the draft minutes from the April 10, 2019 MIC meeting with 0 objections and 0 abstentions.

Endorsements/Approvals

2. Manual 11 and 13 revisions for impact of Gas Contingencies on Reserves

Ms. Natalie Tacka, PJM, provided an overview of revisions to Manual 11 and 13 to clarify the impact of operationalizing gas contingencies on reserve requirements and reserve market eligibility.

The committee endorsed the revisions with 0 objections and 0 abstentions.

3. Cover to Cover Review of Manual 6

Ms. Emmy Messina, PJM, provided an overview of updates to Manual 6 as part of the cover to cover review.

The committee endorsed the revisions with 0 objections and 0 abstentions.

First Readings

4. Five Minute Dispatch and Pricing

Mr. Siva Josyula, Monitoring Analytics, presented a first read on a problem statement and issue charge related to Five Minute dispatch and pricing. The committee will be asked to vote on this issue charge at its next meeting.

Working Issues

5. Modified Must Offer Exception Process Issue Charge

Mr. Pat Bruno, PJM, reviewed proposed updates to the existing Must Offer Exception Process Issue Charge to address relinquishment of CIRs. Several stakeholders stated that they would be interested in a broader discussion of CIRs at the Markets & Reliability Committee. Mr. Carl Johnson, PJM Public Power Coalition, will bring forth a new problem statement/issue charge to address this issue for a first reading at the June MRC meeting.

Issue Tracking: Must Offer Exception Process

6. Fast Start Pricing Order

Mr. Adam Keech, PJM, reviewed the recently issued FERC Order to address fast start pricing and discussed implementation details.

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7. Carbon Pricing Update

Mr. Gary Helm, PJM, provided an update on the Carbon Pricing study being conducted by PJM, including assumptions being considered to date. Stakeholders provided comments and feedback on the scope and assumptions of the study.

8. Gas Contingency Compensation

Mr. Thomas DeVita, PJM, provided an update on the FERC Order ER19-664 and reviewed key takeaways from the dialogue with FERC staff regarding a potential future proposal. He also reviewed the conceptual framework for a new PJM proposal. Stakeholders provided comments and feedback on the proposal.

9. Market Seller Offer Cap

Mr. Chen Lu, PJM, provided an update on the pending Market Seller Offer Cap complaints and discussed potential future stakeholder consideration of a revised Market Seller Offer Cap.

Additional Items

10. NYISO/PJM JOA Language

Ms. Nikki Militello, PJM, provided an update on the NYISO/PJM JOA.

11. ComEd SPS/RAS Retirement

Mr. Mohit Singh, ComEd, presented on the retirement of the SPS/RAS at Quad Cities substation.

12. VOM Update

Mr. Tom Hauske, PJM, provided an informational update on requirements for Operating Costs, Maintenance Adders, and Fuel Cost Policies resulting from VOM Order Docket No. ER19-210-001.

Informational Section

Credit Subcommittee (CS)

Meeting materials will be posted to the CS website.

Demand Response Subcommittee (DRS)

Meeting materials will be posted to the DRS web site.

Intermittent Resources Subcommittee (IRS)

Meeting materials will be posted to the <u>IRS web site.</u>

Net Energy Injections Quarterly Report

Materials are posted as informational only.

Interregional Coordination Update

Materials are posted as informational only.





Market Settlements Subcommittee (MSS)

Meeting materials are posted to the MSS web site.

Report on Market Operations

The Report on Market Operations will be reviewed during the MC Webinar.

Future Meeting Dates

June 12, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
July 10, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
August 7, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
September 11, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
October 16, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
November 13, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
December 11, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx

Author: Bhavana Keshavamurthy

In-Person Meeting Attendees

Names	Company Name	Sector
Hendrzak, Chantal (Chair)	PJM Interconnection, LLC	Not Applicable
Keshavamurthy, Bhavana (Secretary)	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Benchek, Jim	American Transmission Systems, Inc.	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Borgatti, Michael	Gabel and Associates	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Brown, Rich	PJM Interconnection, LLC	Not Applicable
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Canter, David	Appalachian Power Company	Transmission Owner
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joe	PJM Interconnection, LLC	Not Applicable
Crystle, Gil	UGI Development Company	Transmission Owner
D'Alessandris, Lou	FirstEnergy Solutions Corp.	Transmission Owner
DeVita, Thomas	PJM Interconnection, LLC	Not Applicable
Diiorio, Michelle	PSEG Energy Resources and Trade LLC	Transmission Owner
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Filomena, Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Foldare, Kenneth	Tangible	Not Applicable
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess, Christian	PBF Power Marketing	Generation Owner
Greening, Michele	PJM Interconnection, LLC	Transmission Owner
Hastings, David	Market Interconnection LLC	Not Applicable
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
Helm,Gary	PJM Interconnection, LLC	Not Applicable
Hoatson, Tom	LS Power	Not Applicable
Horning, Lynn Marie	Customized Energy Solutions, Ltd.*	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hyzinski, Tom	GT Power Group	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable





Josyula, Siva
Kauffman, Brian
Keech, Adam
Kogut, George
Lu, Chenchao
Luna, Joel
Mabry, David
Messina, Emmy
Midgley, Sharon
Militello, Nicole
Nix, Emma
Noonan, Casey
O'Connell, Robert
OHara, Christopher
Perera, Asanga
Philips, Marjorie
Pilong, Melissa
Pincus,Steve
Scarpignato, David
Smith, Christen
Snyder, Susan
Sun, Jung
Sweeney, Rory
Tacka, Natalie
Thomas, Amber
Trayers, Barry
Tribulski, Jennifer
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Monitoring Analytics, LLC
EnerNOC, Inc.
PJM Interconnection, LLC
New York Power Authority
PJM Interconnection, LLC
Monitoring Analytics, LLC
McNees Wallace & Nurick LLC
PJM Interconnection, LLC
Exelon Business Services Company, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
PPGI Fund A/B Development, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
Direct Energy Business, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
Calpine Energy Services, L.P
RTO Insider
PJM Interconnection, LLC
Calpine Energy Services, L.P
GT Power Group
PJM Interconnection, LLC
PPL Electric Utilities Corp. dba PPL Utilities
Citigroup Energy, Inc.
PJM Interconnection, LLC
GT Power Group
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Other Supplier
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Generation Owner
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Not Applicable
Transmission Owner
Other Supplier
Not Applicable
Not Applicable

Webex Meeting Attendees

Whitehead, Jeffrey

Bernstein, Matthew Bresler, Stu Brophy, Nick Brophy, Nick Brozina, Mark Bruno, Joshua Budney, Dave Burdis, Tim Campbell, Bruce Carmean, Greg Carroll, Rebecca Caven, Augustine Caven, Augustine Chintapalli, Raj Cocco, Michael Coyne, Suzanne Croop, Danielle D'Antonio, Phil Brespina, Matthew PJM Interconnection, LLC Not Applicable	
Croop, DaniellePJM Interconnection, LLCNot ApplicableD'Antonio, PhilPJM Interconnection, LLCNot ApplicableDavis, ElizabethPJM Interconnection, LLCNot Applicable	
Davis, Gerthy Marathon Power LLC Other Supplier Davis, Jim Dominion Energy Transmission Own DeLosa, Joe NJ Board of Public Utilities Not Applicable	ner

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DePillo, Ray DiNicola, Laura Dirani, Rami Dolan, Jim Drom, Richard Dugan, Chuck Durinsky, Mike Ejebe, Gabriel Ericson, Christine Fan, Zhenyu Fernandez, Ray Feller, John

Feller, John Gebolys, Debbie Genuario, Gabrielle Guntle, Vince Hanser, Erik Harmon, Mike Heinle, Erik Heisey, Bradley Herel, Suzanne Hohenshilt, Jennifer Holdbrook, Ruth Holland, Risa Holter, Natasha Hsia, Eric

Jett, William

Jha, Monica

Keegan, Jack Kenney, Susan Kilgallen, Kevin Kimmel, David LaRocque, Matthew Lejcar, Jamie Leopold, Chris Liang-Nicol, Cecilia Libbos, Robin Liu-Mckenna, Phyllis Logan, Sharon Lowe, Connie Mae Velasco, Cheryl Markiewicz, Cindy Martin, Valerie Matsuzak, Alex

McGlynn, Paul Mendelsohn, Mark Mooney, Jeff O'Boyle, Brian Olaleye, Michael Ondayko, Brock Pakela, Gregory Patel, Keyurbhai Peoples, John Poulos,Greg Ponthot, Rosana Powers,Sean Rayhorn, Carolyn PSEG Energy Resources and Trade LLC

FirstEnergy Solutions Corp. PJM Interconnection, LLC PJM Interconnection, LLC Eckert Seamans

East Kentucky Power Cooperative, Inc.

FirstEnergy Solutions Corp.

OATI

Illinois Commerce Commission PJM Interconnection, LLC PJM Interconnection, LLC

PPL Electric Utilities Corp. dba PPL Utilities Public Utilities Commission of Ohio (The)

PJM Interconnection, LLC UGI Development Company Michigan Public Service Commission

Union Electric Company d/b/a Ameren Missouri

D.C. Office of the People's Counsel

Wolf Hills Energy, LLC
PJM Interconnection, LLC
Talen Energy Marketing, LLC
Northern Virginia Electric Cooperative

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC

Duke Energy Business Services LLC

PCI

Just Energy

PJM Interconnection, LLC Avangrid Renewables, LLC PJM Interconnection, LLC PJM Interconnection, LLC Allegheny Electric Cooperative, Inc. Appalachian Power Company

Monongahela Power Company d/b/a Allegheny Power

FirstEnergy Solutions Corp.

PSEG Energy Resources and Trade LLC The Federal Energy Regulatory Commission

Dominion Virginia Power PJM Interconnection, LLC FirstEnergy Solutions Corp.

The Federal Energy Regulatory Commission

UGI Enegy Services
PJM Interconnection, LLC
Noble Americas Gas & Power Corp.
FirstEnergy Solutions Corp.
Consolidated Edison Solutions, Inc.
PJM Interconnection, LLC
Appalachain Power Company
DTE Energy Trading, Inc.
PJM Interconnection, LLC
Duquesne Light Company

CAPS

PSEG Energy Resources and Trade LLC

Linde, LLC

Dominion Virginia Power

Transmission Owner
Transmission Owner
Not Applicable
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Transmission Owner Transmission Owner Not Applicable Not Applicable Not Applicable Transmission Owner Not Applicable Other Supplier Not Applicable Other Supplier **Transmission Owner** Transmission Owner Not Applicable Transmission Owner Other Supplier Not Applicable Transmission Owner Not Applicable Transmission Owner

End User Customer

Not Applicable





Redwine, Arlo Robertson, Kathleen Rohrbach, John Saini, Ishwar Sasser, Jonathan Scheidecker, Paul Schmatz, Peter Schmitt, Jeff Schreim, Morris Schum, Alic Schuyler, Ken Shanker, Roy Sheilds, Jeff Sillin, John Singer, Chad Sitarchyk, Mike Singh, Mohit

Stone, Andy Stotesbury, Christina Sturgeon, John Haibin, Sun Swalwell, Brad Tangirala, Subha Vayda, Brian Wadsworth, Joseph Ward, Michael Warshel, Kim Williams, Stanley Wilson, Bram Wilson, James Xu,Xu

Stancombe, Corey

FERC Exelon Business Services Company, LLC ACES Power

Macquarie Energy

Customized Energy Solutions, Ltd.*

PJM Interconnection, LLC PSEG Energy Resources and Trade LLC

PJM Interconnection, LLC

Maryland Public Service Commission Illinois Municipal Electric Agency PJM Interconnection, LLC H.Q. Energy Services (U.S.), Inc. PJM Interconnection, LLC

The Federal Energy Regulatory Commission

Fellon McCord

PJM Interconnection, LLC Commonwealth Edison Company

Duke Energy

PJM Interconnection, LLC PJM Interconnection, LLC Duke Energy Carolinas, LLC

Exelon Business Services Company, LLC

Tangent Energy

ABB

Borough of Park Ridge, NJ

Vitol Inc.

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC

EFW. Inc

Wilson Energy Economics PJM Interconnection, LLC Not Applicable Transmission Owner Not Applicable Other Supplier Not Applicable Not Applicable Transmission Owner Not Applicable

Not Applicable Electric Distributor Not Applicable Other Supplier Not Applicable Not Applicable Not Applicable Transmission Own

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Transmission Owner
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Other Supplier
Transmission Owner

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