



Market Implementation Committee
PJM Conference & Training Center, Audubon, PA
July 12, 2017
9:00 a.m. – 4:15 p.m. EPT

Administration

- 1. Ms. Christina Stotesbury, PJM, provided announcements and reviewed the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines
- 2. The committee approved the draft minutes from the June 7, 2017 Market Implementation Committee meeting by acclamation with 0 objections and 0 abstentions.
- 3. Ms. Christina Stotesbury, PJM, reviewed the active MIC issues on Issue Tracking.
 - Mr. Eric Hsia, PJM, provided an update on a Black Start billing adjustment in the AEP zone.
 - Ms. Jen Tribulski, PJM, provided an update on the Minimum Offer Price Rule (MOPR) appeal.

Endorsements/Approvals

4. Manual Revisions for Capacity Performance & Performance Assessment Hours Ms. Rebecca Stadelmeyer, PJM, reviewed revisions to Manual 11: Energy & Ancillary Services, and Manual 18: PJM Capacity Market, for changes associated with Capacity Performance Shortfall and Bonus MW calculations. The committee endorsed the manual revisions by acclamation with 0 objections and 0 abstentions.

5. Manual Revisions for Intraday Offers

- A. Ms. Lisa Morelli, PJM, reviewed proposed conforming revisions to Manual 11: Energy & Ancillary Services, associated with the implementation of Intraday Offers.
- B. Monitoring Analytics presented additional proposed manual revisions as well as concerns related to the implementation of Intraday Offers in Manual 11.

After discussion about the manual edits and the concerns offered by the Market Monitor, the vote to endorse Manual 11 revisions for Intraday Offers was postponed. PJM and the Market Monitor will work together to align the revisions, where possible, and present an updated proposed revisions to Manual 11 for endorsement at the August MIC.

6. Governing Document Revisions to the Limitation on Claims

Mr. Steven Shparber, PJM, reviewed Tariff and Operating Agreement revisions related to the Limitation on Claims. The committee endorsed the governing document revisions by acclamation with 0 objections and 2 abstentions.





Working Issues

7. Annual Revenue Requirements for new Black Start Units – Phase 2

Mr. Tom Hauske, PJM, presented two solution packages on the Minimum Tank Suction Levels (MTSL) as part of Phase 2 for the Annual Revenue Requirements for new Black Start units. Stakeholders were given an opportunity to offer additional solutions. Discussion around the solutions proposed led to the removal of Package C, leaving only the Market Monitor's package on the table. The Committee agreed to consider this a first read of the single proposal and will seek endorsement for the Phase 2 - Minimum Tank Suction Levels proposal at the August MIC meeting.

8. Energy Efficiency Participation in Capacity Markets

Mr. Pete Langbein, PJM, reviewed the Energy Efficiency (EE) problem statement and issue charge that was approved at the June 7 MIC, and proposed working this issue at the Demand Response Subcommittee (DRS) with no objections. Ms. Terri Esterly, PJM, presented education on current EE eligibility and participation requirements. Follow-up education and continued discussion on this topic will take place at the DRS, starting with the July 17 meeting; and regular updates will be provided to the MIC.

First Readings

9. Governing Document Revisions for PJM-MISO CTS

- A. Mr. Michael Olaleye, PJM, presented a first read of conforming revisions to Manual 11: Energy & Ancillary Services, associated with Coordinated Transaction Scheduling. The committee will be asked to endorse the manual revisions at the August MIC meeting.
- B. Mr. Bhushan Dhuri, PJM, presented a first read of revisions to the Regional Transmission and Energy Scheduling Practices document. The committee will be asked to endorse the revisions at the August MIC meeting.

10. Transmission Penalty Factors – Problem Statement and Issue Charge

Dr. Joe Bowring, Monitoring Analytics, presented a first read of a problem statement and issue charge associated with Transmission Penalty Factors. The committee will be asked to approve the new issue at the August MIC meeting.

11. Market Path/Interface Pricing Point Alignment - Problem Statement and Issue Charge

- A. Dr. Joe Bowring, Monitoring Analytics, presented a first read of a problem statement and issue charge associated with Market Path/Interface Pricing Point Alignment. The committee will be asked to approve the issue at the August MIC meeting.
- B. Mr. John Dadourian, Monitoring Analytics, provided education on interface scheduling and the Pricing Point Alignment issue and reviewed a proposed solution.

Additional Updates

12. Markets Gateway Enhancements

Ms. Cheryl Mae Velasco, PJM, provided an update on Markets Gateway enhancements that have been communicated at the Tech Change Forum.





13. Fuel Cost Policy Annual Review Process Update

- A. Mr. Jeff Schmitt, PJM, provided an update on the Annual Review of Fuel Cost Policies.
- B. Ms. Melissa Pilong, PJM, reviewed the Variable Operations and Maintenance (VOM) template and Mr. Scott Benner, PJM, reviewed the Emissions template as part of the Fuel Cost Policy Annual Review requirement. The deadline to submit VOM and Emissions calculations is August 1, 2017.

14. Order 825: Shortage Pricing

Ms. Lisa Morelli, PJM, provided an update on Order 825: Shortage Pricing and PJM's implementation. PJM will continue to update the MIC as PJM investigates shortening the RT SCED look-ahead period from 15 minutes to 10 minutes.

15. Order 831: Offer Caps

Ms. Alpa Jani, PJM, provided an update on implementation details for Order 831: Offer Caps. More information will be provided at future education sessions scheduled for August 7 and September 15.

Informational Section

Credit Subcommittee (CS)

Meeting materials will be posted to the <u>CS website</u>.

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 IRS web site.

Interregional Coordination Activity

Mr. Tim Horger, PJM, was available to answer questions on Interregional Coordination efforts. 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

August 9, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
September 13, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
October 11, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
November 8, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
December 13, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center





Members in Attendance

Hendrzak, Chantal (Chair) Stotesbury, Christina (Secretary)

Barker, Jason Benchek, Jim Bleiweis. Bruce Borgatti, Mike Brodbeck, John Canter, David

Filomena, Guy Fitch, Neal Ford, Adrien Greiner, Gary Guerry, Katie Horstmann, John Hudis. Gabriella

Jardot, Gina Johnson, Carl Kogut, George Lowe, Connie Midgley, Sharon O'Connell, Robert

Pakela, Gregg Peoples, John Sasser, Jonathan Scarpignato, David

Suh, Jung Trayers, Barry Whitehead, Jeffrey Wilkie. Brian Wilson, Bram Yu, Joel

PJM Interconnection, LLC PJM Interconnection, LLC

Exelon Business Services Company, LLC

FirstEnergy Solutions Corp.

DC Energy LLC Gabel and Associates

EDP Renewables North America, LLC Appalachian Power Company Customized Energy Solutions, Ltd.* NRG Power Marketing LLC Old Dominion Electric Cooperative PSEG Energy Resources and Trade LLC

EnerNOC, Inc.

Dayton Power & Light Company (The)

Jersey Green Energy LLC

Essential Power Rock Springs, LLC Customized Energy Solutions, Ltd.* New York Power Authority

Dominion Virginia Power

Exelon Business Services Company, LLC

PPGI Fund A/B Development, LLC

DTE Energy Trading **Duquesne Light Company**

Customized Energy Solutions, Ltd.* Calpine Energy Services, L.P. Noble Americas Energy Solutions LLC

Citigroup Energy, Inc.

Direct Energy Business Marketing, LLC

Rockland Electric Company

Diamond State Generation Partners, LLC

Rockland Electric Company

Not Applicable Not Applicable

Transmission Owner Transmission Owner Other Supplier

Not Applicable Other Supplier Transmission Owner Not Applicable Generation Owner Electric Distributor

Other Supplier Other Supplier Transmission Owner

Other Supplier Transmission Owner

Not Applicable Other Supplier Not Applicable

Transmission Owner Generation Owner Other Supplier Transmission Owner Not Applicable

Generation Owner Other Supplier Other Supplier Other Supplier

Transmission Owner Generation Owner Transmission Owner

Also in Attendance

Benner, Scott Buck, Rachel Carroll, Rebecca Ciabattoni, Joseph Dadourian, John Dhuri, Bhushan Dirani. Rami Driscoll, Mary Ellen Esterly, Theresa Fabiano, Janell Fernandez, Ray

Fuess, Jay Hauske, Thomas Horger, Tim Hyzinski, Tom Jani, Alpa Josyula, Siva

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Monitoring Analytics, LLC PJM Interconnection, LLC White Pine Energy Consulting PJM Interconnection, LLC PJM Interconnection, LLC

GT Power Group PJM Interconnection, LLC Monitoring Analytics, LLC

Not Applicable Not Applicable

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Keech, Adam PJM Interconnection, LLC Langbein, Peter PJM Interconnection, LLC Mabry, David McNees Wallace & Nurick LLC McLaughlin, Jeffrey PJM Interconnection, LLC Mooney, Catherine Monitoring Analytics, LLC Morelli, Lisa PJM Interconnection, LLC Olaleye, Michael PJM Interconnection, LLC Pacella, Chris PJM Interconnection, LLC **CAPS** Poulos, Greg **GT Power Group** Pratzon, David Rohrbach, John Gable and Associates PJM Interconnection, LLC Schmitt, Jeff Shparber, Steve PJM Interconnection, LLC Smith, Melissa PJM Interconnection, LLC Sweeney, Rory RTO Insider Tribulski, Jennifer PJM Interconnection, LLC Velasco, Cheryl Mae PJM Interconnection, LLC Yeaton, Andrea PJM Interconnection, LLC

Not Applicable Not Applicable

In Attendance via WebEx / Teleconference

Ainspan, Malcolm Aung, Thinzar Austin, Larry Bhavaraju, Murty Binder, Gerry Bolan, Martin Boyle, Glen Brown, Rich Campbell, Bruce Canchi, Devendra Carmean, Gregory Cawley, Troy Celestine, Kizi Chen, Jennifer Coyle, Billy Coyne, Suzanne Croop. Danielle

Daugherty, Suzanne DeLosa, Joseph DePillo, Ray Dillon, Matt DiNicola, Laura Domian, Christin Drom, Rick Dugan, Chuck

Crystle, Gil

Elliott, Randolph Falin, Tom Farber, John Feierabend, Rick Fox, Angela Foxen, Tim Energy Curtailment Specialists, Inc. PJM Interconnection, LLC

PJM Interconnection, LLC
PJM Interconnection, LLC
SESCO Enterprises LLC
FirstEnergy Solutions Corp.
PJM Interconnection, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
EnergyConnect, Inc.
Monitoring Analytics, LLC

OPSI

PJM Interconnection, LLC Appalachian Power Company Natural Resources Defense Council Dominion Virginia Power

Dominion Virginia Power PJM Interconnection, LLC PJM Interconnection, LLC UGI Utilities, Inc.

PJM Interconnection, LLC
DE Public Service Commission
Public Service Flectric & Gas C

Public Service Electric & Gas Company

UGI Utilities, Inc.

FirstEnergy Solutions Corp.

Mitsubishi Electric Power Products Inc.

Eckert Seamans

East Kentucky Power Cooperative, Inc.

Electric Co-op Today
PJM Interconnection, LLC
DE Public Service Commission
Dominion Virginia Power
Wylan Energy, L.L.C.
Osaka Gas USA Corporation

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Gahimer, Mike
Garnett, Bryan
Gebolys, Debbie
Gilani, Rehan
Halay, Alina
Hanser, Erik
Harmon, Mike
Hastings, David
Helms, Joseph
Hoatson, Tom
Hohenshilt, Jennifer
Holland, Cynthia
Hudson, Wes
Hyatt, John
Janicki, Diane

Johnson, Carl Jones, Ryan Kaczanowski, Marek Karnik, Rashmi Karrasch, Kim Kilgallen, Kevin Kimmel, David Knies, Heather Kormos, Mike Leasure, Jill

Lejcar, Jamie Leopold, Chris Liang-Nicol, Cecilia Libbos, Robin Lieberman, Steven Logan, Sharon Lui-McKenna, Phyllis

Mariam, Yohannes Markiewicz, Cynthia Martin, Valerie

Mancuso, Melanie

McAlister, Lisa McComb, John Mehta, Chirag Metzler, Jakob Nadel, Steven

Nyemko, Masha Olinger, Robert Ondayko, Brock O'Neill, Jack Park, Jinny Patel, Keyuarbhai

Patel, Keyuarbha Patten, Kevin Philips, Marjorie Pilong, Chris Powers, Sean Price, Mark Robins, Pip Indiana Office of Utility Consumer Counselor

Duke Energy Ohio, Inc

Public Utilities Commission of Ohio (The)

ConEdison Energy, Inc.

Federal Energy Regulatory Commission (The)

Michigan Public Service Commission

Union Electric Company d/b/a Ameren Missouri

D Hast Co

Rainbow Energy Marketing Corporation

Riverside Generating, LLC Talen Energy Marketing, LLC New Jersey Board of Public Utilities

Dominion Virginia Power Monitoring Analytics, LLC

Boston Energy Trading & Marketing, LLC Customized Energy Solutions Ltd*
Allegheny Electric Cooperative, Inc.
Baltimore Gas and Electric Company

Other

Interstate Gas Supply, Inc.
Avangrid Renewables LLC
PJM Interconnection, LLC
EDF Trading North America, LLC
Exelon Generation Co., LLC
GenOn Energy Management, LLC
Jamie_Lejcar@ccsenergy.com
Appalachian Power Company

Monongahela Power Company d/b/a Allegheny Power

FirstEnergy Solutions Corp. American Municipal Power, Inc.

The Federal Energy Regulatory Commission

PSEG

FirstEnergy Solutions Corp.

Office of the Peoples Counsel for the District of Columbia

FirstEnergy Solutions Corp.

Federal Energy Regulatory Commission (The)

American Municipal Power, Inc. PJM Interconnection, LLC

LM Power, LLC

Castleton Commodities Merchant Trading L.P. PPL Electric Utilities Corp. dba PPL Utilities

PJM Interconnection, LLC Keystone Projects

Appalachain Power Company PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Appalachain Power Company

Direct Energy Business Marketing, LLC

PJM Interconnection, LLC Linde Energy Services, Inc. DC Energy Mid-Atlantic, LLC EMC Development Company, Inc. End User Customer
Transmission Owner

Not Applicable
Other Supplier
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Generation Owner
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Electric Distributor

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Electric Distributor

Rothey, Kristin Ruck. Andrew Rutigliano, Tom Schmatz, Peter Schneider, Jon Scoglietti, Barbara Seelaus, Andy Seelaus, Tim Shah, Vijay Shanker, Roy Sillin, John Skucas, Ruta Smaczniak, Kim Sock, Bryan Souder, Michelle Souder, Rich Swigonski, Frank Tangirala, Subha Thew. Carla Thomson, Heather Tibbetts. Maeve Vavda, Brian Walter, Laura Ward, Michael

Warner-Freeman, Jennifer Warshel, Kim Watson, Mark Webster, John Weiss, Glenn Wilhite, Chad Williams, Stanley Wilmoth, Emily American Municipal Power, Inc. PSEG Energy Resources and Trade, LLC Achieving Equilibrium LLC PSEG Energy Resources and Trade, LLC FirstEnergy Solutions Corp. Tangent Energy Solutions, Inc. EMC Development Company, Inc. EMC Development Company, Inc. PJM Interconnection, LLC H.Q. Energy Services (U.S.), Inc. The Federal Energy Regulatory Commission Pierce Atwood Earth Justice Public Service Electric & Gas Company PJM Interconnection, LLC PJM Interconnection, LLC

ABB
PJM Interconnection, LLC
Mid-Atlantic Renewable Energy
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Borough of Park Ridge, NJ
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PJM Interconnection, LLC
S & P Global
Icetec.com, Inc.
PJM Interconnection, LLC
FirstEnergy Solutions Corp.
PJM Interconnection, LLC

Dominion Virginia Power

ETC Endure Energy L.L.C.

Advanced Energy Economy Inc.

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Author: Christina Stotesbury

Wood, Gordon

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