

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

Administration

1. Ms. Chantal Hendrzak, PJM, and 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 March 8, 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](#)

Ms. Lisa Morelli, PJM, provided a brief update on the Transient Shortage portion of FERC Order 825 that will go into effect on May 11, 2017. In the compliance filing submitted on March 1, PJM requested a later implementation date to coincide with the implementation of 5-minute settlements. PJM did not hear back by the March 31 deadline and will move forward with the May 11 implementation date as proposed in the Order. The proposed Operating Reserve Demand Curve (ORDC) changes that complement this Order are being worked through the PJM stakeholder process. The ORDC proposal will be voted at the Members Committee meeting on April 27. If the proposal passes, PJM is looking to implement changes to the ORDC around July 1, 2017, assuming FERC approval is received.

Endorsements/Approvals

4. **Annual Revenue Requirements for new Black Start Units – Phase 1**
Mr. Tom Hauske, PJM, presented the solution package for the Annual Revenue Requirements for new Black Start units. **The Committee endorsed the package by acclamation with 0 objections and 8 abstentions.**
5. **Spot-in Transmission Service for Energy Imports from NYISO**
 - A. Mr. Chris Pacella, PJM, reviewed the proposed solution for Package B.
 - B. Mr. John Rohrbach, ACES Power, reviewed concerns with the proposed solution to move the spot-in transmission service time from 9:00 a.m. to 10:00 a.m.

Due to concerns raised by stakeholders that the move to 10:00 a.m. would adversely impact other seams, the Committee deferred voting this item. Interested stakeholders will work to develop a more comprehensive approach to address market issues across all seams.

[Issue Tracking: Spot-in Transmission Service for Energy Imports from NYISO](#)

Working Issues

6. **Opportunity Cost Calculator**
Ms. Jennifer Warner-Freeman, PJM, provided a brief update to the problem statement and issue charge that was approved at the March MRC, and reviewed the timeline to work this issue over the next few months. A Special Session on this topic is being scheduled and will be posted to the [MIC website](#).

First Readings

7. **FTR/ARR Order**

Mr. Brian Chmielewski, PJM, provided a first read of conforming manual revisions related to the FERC Order impacting the annual ARR/FTR process. The Committee will be asked to endorse the manual revisions at the May MIC meeting.

8. **MSS – Pseudo-tied Generators and Dynamic Schedules Meter Correction Proposal**

Mr. Ray Fernandez, PJM, provided a first read on the Pseudo-tied Generators and Dynamic Schedules Meter Correction proposal and governing document language that was endorsed by the Markets Settlements Subcommittee. The Committee will be asked to endorse the proposal and governing document revisions at the May MIC meeting.

9. **FTR Surplus Funds - Problem Statement & Issue Charge**

Mr. Jeff Whitehead, Direct Energy, provided a first read of a problem statement and issue charge that addresses Day Ahead Surplus Congestion Funds and FTR Auction Revenue Surplus Funds. The committee will be asked to approve the problem statement and issue charge at the May MIC meeting.

10. **Energy Efficiency Participation in Capacity Markets - Problem Statement & Issue Charge**

- A. Ms. Denise Foster, PJM, provided a first read of a problem statement and issue charge that addresses state restrictions on energy efficiency resources participating in capacity markets. The committee will be asked to approve the problem statement and issue charge at the May MIC meeting.
- B. Dr. Joe Bowring, Monitoring Analytics, provided a response.

11. **Variable Operations & Maintenance Costs - Problem Statement & Issue Charge**

- A. Mr. Jeff Schmitt, PJM, provided a first read of a problem statement and issue charge that addresses VOM costs as part of Fuel Cost Policies and the submission of cost-based offers. The committee will be asked to approve the problem statement and issue charge at the May MIC meeting.
- B. Mr. Joel Romero Luna, Monitoring Analytics, provided a response.

Additional Updates

12. **Fuel Cost Policy FAQ's and Transition Process**

- A. Mr. Jeff Schmitt, PJM, provided a status update on Fuel Cost Policies, and noted the deadline to have all policies approved by May 15.
- B. Ms. Catherine Tyler, Monitoring Analytics, provided a response.

13. **Order 831: Offer Cap Update**

Ms. Alpa Jani, PJM, provided an update on the Offer Cap compliance filing and reviewed the proposed timeline. Mr. Rami Dirani, PJM, presented details related to the technical implementation.

14. **Winter Capacity Interconnection Rights**

Mr. Jeff Bastian, PJM, provided an update on winter CIRs.

15. Manual 18 Revisions for Enhanced Aggregation Filing

Ms. Terri Esterly, PJM, presented conforming revisions to Manual 18: PJM Capacity Market, related to the Enhanced Aggregation filing ([Docket ER17-367](#)).

16. FTR Auction Results

Mr. Asanga Perera, PJM, provided a follow-up update on information requested on the delayed posting for the March 2017 FTR Auction results.

17. FTR Forfeiture Update

Mr. Asanga Perera, PJM, provided an update on FTR forfeitures.

18. FTR Credit Exposure from Transmission Changes

Mr. Hal Loomis, PJM, informed the Committee of an upcoming Problem Statement that will be introduced at the Credit Subcommittee and Markets and Reliability Committee to address potential exposures that have been observed in the FTR Market.

19. Black Start RFP Process

Mr. David Schweizer, PJM, reviewed plans related to the next RTO-wide Black Start RFP process.

20. BGE RAS Retirement

Mr. Eric Yeh, Exelon, provided an update on the BGE Remedial Action Scheme.

21. Automatic Sectionalizing Schemes

Mr. Lagy Mathew, PJM, provided an update on Automatic Sectionalizing Schemes.

22. Manual 14D: Generator Operational Requirements

Mr. Joe Mulhern, PJM, reviewed proposed changes to Manual 14D related to requirements for solar parks.

23. England & Red Bank Pricing Interfaces

Mr. Chris Callaghan, PJM, presented the England and Red Bank pricing interfaces.

24. Ramapo PAR Update

Mr. Stan Williams, PJM, provided an update on Ramapo PAR cost allocation discussions with NYISO.

25. Transmission Constraint Control Logic Paper

Mr. Angelo Marcino, PJM, provided a review on the Transmission Constraint Control Logic paper, which describes the logic used in PJM's market clearing engines to control transmission constraints and the impact of transmission constraint penalty factors on constraint shadow prices.

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 [IRS web site](#).

Inter-Regional Coordination Activity

Mr. Stan Williams, PJM, was available to answer questions on Inter-Regional Coordination efforts.

Materials are posted as informational only.

Manual 03 – Transmission Operations Review

Ms. Nicole Scott, PJM, was available to answer questions related to Manual 03, version 51 revisions.

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

May 3, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
June 7, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
July 12, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
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)	PJM Interconnection, LLC	Not Applicable
Stotesbury, Christina (Secretary)	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Bolan, Martin	FirstEnergy Solutions Corp.	Transmission Owner
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Cox, Jason	Dynegy Power Marketing, Inc.	Generation Owner
Filomena, Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Fuess, James	PBF Power Marketing LLC	Generation Owner
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Guerry, Katie	EnerNOC, Inc.	Other Supplier
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hudis, Gabriella	Jersey Green Energy LLC	Other Supplier
Hyzinski, Tom	Talen Energy Marketing, LLC	Generation Owner
Jardot, Gina	Essential Power Rock Springs, LLC	Transmission Owner

Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Kauffman, Brian	NRG Curtailment Solutions	Other Supplier
Kogut, George	New York Power Authority	Other Supplier
Lieberman, Steven	American Municipal Power, Inc.	Electric Distributor
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Powers, Sean	Linde Energy Services, Inc.	End User Customer
Rohrbach, John	Southern Maryland Electric Cooperative	Electric Distributor
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Suh, Jung	Noble Americas Energy Solutions LLC	Other Supplier
Trayers, Barry	Citigroup Energy, Inc.	Other Supplier
Vayda, Brian	American PowerNet Management, L.P.	End User Customer
Wadsworth, Joseph	Vitol Inc.	Other Supplier
Whitehead, Jeffrey	Direct Energy Business Marketing, LLC	Other Supplier
Yu, Joel	Rockland Electric Company	Transmission Owner

Also in Attendance

Bastian, Jeff	PJM Interconnection, LLC	Not Applicable
Benner, Scott	PJM Interconnection, LLC	Not Applicable
Bowring, Joe	Monitoring Analytics, LLC	Not Applicable
Bowring, Joseph	Monitoring Analytics, LLC	Not Applicable
Bryson, Mike	PJM Interconnection, LLC	Not Applicable
Callaghan, Chris	PJM Interconnection, LLC	Not Applicable
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joe	PJM Interconnection, LLC	Not Applicable
Dantonio, Phil	PJM Interconnection, LLC	Not Applicable
Dirani, Rami	PJM Interconnection, LLC	Not Applicable
Drauschak, Lisa	PJM Interconnection, LLC	Not Applicable
Driscoll, Mary Ellen	PJM Interconnection, LLC	Not Applicable
Esterly, Terri	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Foladare, Kenneth	Tangibl	Not Applicable
Foster, Denise	PJM Interconnection, LLC	Not Applicable
Genuraio, Gabrella	PJM Interconnection, LLC	Not Applicable
Griffiths, Dan	Pennsylvania Office of Consumer Advocate	End Use Customer
Haas, Howard	Monitoring Analytics, LLC	Not Applicable
Hagaman, Derek	GT Power Group	Not Applicable
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
Hayik, Seth	Monitoring Analytics, LLC	Not Applicable
Holland, Risa	PJM Interconnection, LLC	Not Applicable
Holter, Natasha	PJM Interconnection, LLC	Not Applicable
Jani, Alpa	PJM Interconnection, LLC	Not Applicable
Loomis, Harold	PJM Interconnection, LLC	Not Applicable
Lowe, Connie	Dominion Virginia Power	Not Applicable
Luna, Joel	Monitoring Analytics, LLC	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Marcino, Angelo	PJM Interconnection, LLC	Not Applicable
Mathew, Lagy	PJM Interconnection, LLC	Not Applicable
Mooney, Catherine	Monitoring Analytics, LLC	Not Applicable
Morell, Lisa	PJM Interconnection, LLC	Not Applicable
Mulhern, Joe	PJM Interconnection, LLC	Not Applicable



Draft Minutes

O'Connell, Robert	Main Line Electricity Market Consultants	Not Applicable
Pacella, Chris	PJM Interconnection, LLC	Not Applicable
Perera, Asanga	PJM Interconnection, LLC	Not Applicable
Poulos, Gregg	Consumer Advocates of PJM States	Not Applicable
Pratzon, David	GT Power Group	Not Applicable
Schmitt, Jeff	PJM Interconnection, LLC	Not Applicable
Schweizer, David	PJM Interconnection, LLC	Not Applicable
Scott, Nicole	PJM Interconnection, LLC	Not Applicable
Shparber, Steven	PJM Interconnection, LLC	Not Applicable
Smith, Melissa	PJM Interconnection, LLC	Not Applicable
Souder, Rich	PJM Interconnection, LLC	Not Applicable
Stadelmeyer, Rebecca	PJM Interconnection, LLC	Not Applicable
Sweeney, Rory	RTO Insider	Not Applicable
Tyler, Catherine	Monitoring Analytics, LLC	Not Applicable
Walter, Laura	PJM Interconnection, LLC	Not Applicable
Warner-Freeman, Jennifer	PJM Interconnection, LLC	Not Applicable
Williams, Stanley	PJM Interconnection, LLC	Not Applicable

Attended via WebEx / Teleconference

Atkins, Blain	Duke Energy Business Services LLC	Transmission
Austin, Larry	PJM Interconnection, LLC	Not Applicable
Baker, Scott	PJM Interconnection, LLC	Not Applicable
Benckek, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bhavaraju, Murty	PJM Interconnection, LLC	Not Applicable
Britt, Debbie	North Carolina Electric Membership Corporation	Electric Distributor
Bruno, Pat	PJM Interconnection, LLC	Not Applicable
Budney, Dave	PJM Interconnection, LLC	Not Applicable
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Canchi, Devendra	Monitoring Analytics, LLC	Not Applicable
Carmean, Gregory	OPSI	Not Applicable
Carpenter, Christopher	VECO Power Trading, LLC	Other Supplier
Chintapalli, Raj	BP Energy Company	Other Supplier
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
Daugherty, Suzanne	PJM Interconnection, LLC	Not Applicable
DeLosa, Joseph	DE Public Service Commission	Not Applicable
Depillo, Raymond	PSEG Energy Resources and Trade LLC	Other Supplier
Dessenger, Harry	Customized Energy Solutions, Ltd.*	Not Applicable
Dhuri, Bhushan	PJM Interconnection, LLC	Not Applicable
Dickson, Douglas	New Jersey Board of Public Utilities	Not Applicable
DiNicola, Laura	FirstEnergy Solutions Corp	Transmission Owner
Domian, Christin	Mitsubishi Electric Power Products Inc.	Not Applicable
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Engelby, Ben	Aces Power Marketing	Not Applicable
Falin, Tom	PJM Interconnection, LLC	Not Applicable
Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Farber, John	DE Public Service Commission	Not Applicable
Fitzpatrick, Brian	PJM Interconnection, LLC	Not Applicable
Gebolys, Debbie	Public Utilities Commission of Ohio (The)	Not Applicable
Gouda, John	Old Dominion Electric Cooperative	Electric Distributor
Greening, Michele	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Halay, Alina	Federal Energy Regulatory Commission	Not Applicable

Hamilton, Brian	Public Power & Utility of New Jersey, LLC	Not Applicable
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Hastings, David	DHastCo	No
Hoatson, Tom	West Deptford Energy II, LLC	Generation Owner
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horton, Dana	Appalachian Power Company	Transmission Owner
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hugee, Jacquelyn	PJM Interconnection, LLC	Not Applicable
Hurwich, Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Hyatt, John	Monitoring Analytics, LLC	Not Applicable
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
Jett, William	Duke Energy Business Services LLC	Generation Owner
Jha, Monica	PCI	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Johnston, Dave	Indiana Utility Regulatory Commission	Not Applicable
Jones, Ryan	Allegheny Electric Cooperative, Inc.	Electric Distributor
Kaczanowski, Marek	Baltimore Gas and Electric Company	Transmission Owner
Kelly, Kyo	Southern Company Services as agent for Southern Power Company	Other Supplier
Kilgallen, Kevin	Avangrid Renewables, LLC	Generation Owner
Kim, Caleb	Baltimore Gas and Electric Company	Transmission Owner
Kimmel, David	PJM Interconnection, LLC	Not Applicable
Kormos, Michael	Exelon Generation Co., LLC	Generation Owner
Kraemer, Neil	XO Energy MA, L.P.	Other Supplier
Kuhn, Tyler	DC Energy, LLC	Other Supplier
Lange, Nathan	VECO Power Trading, LLC	Other Supplier
LaRocque, Matthew	PJM Interconnection, LLC	Not Applicable
Larry, Steven	Tenaska Power Services Co.	Generation Owner
Leasure, Jill	Keystone Projects	Not Applicable
Lejcar, Jamie	Customized Energy Solutions, Ltd.*	Not Applicable
Liang-Nicol, Cecilia	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Libbos, Robin	FirstEnergy Solutions Corp.	Transmission Owner
Logan, Sharon	The Federal Energy Regulatory Commission	Not Applicable
Lukach, Jaclynn	PJM Interconnection, LLC	Not Applicable
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	End User Customer
Markiewicz, Cynthia	FirstEnergy Solutions Corp.	Transmission Owner
Martin, Valerie	Federal Energy Regulatory Commission	Not Applicable
Marton, David	FirstEnergy Solutions Corp.	Transmission Owner
McLaughlin, Jeffrey	PJM Interconnection, LLC	Not Applicable
Metzler, Jakob	Castleton Commodities Merchant Trading L.P.	Other Supplier
Miller, John	Commonwealth Edison Company	Transmission Owner
Olaleye, Michael	PJM Interconnection, LLC	Not Applicable
Olenick, Cory	West Oaks Energy, LP	Other Supplier
Ondayko, Brock	Appalachian Power Company	Transmission Owner
O'Neill, Jack	PJM Interconnection, LLC	Not Applicable
Patel, Keyurbhai	PJM Interconnection, LLC	Not Applicable
Peoples, John	Duquesne Light Company	Transmission Owner
Picarelli, David	PJM Interconnection, LLC	Not Applicable
Pilong, Chris	PJM Interconnection, LLC	Not Applicable
Price, Ruth	Delaware Public Service Commission	Not Applicable
Prokop, Brenda	ITC Mid-Atlantic Development LLC	Other Supplier
Rajan, Abhijit	Dominion Resources	Not Applicable
Ramsey, James	Suffolk Fund LLC	Other Supplier
Renda, Michael	VECO Power Trading, LLC	Other Supplier

Riehl, John	Federal Energy Regulatory Commission	Not Applicable
Robins, Pip	EMC Development Company, Inc.	Other Supplier
Rothey, Kristin	American Municipal Power, Inc.	Electric Distributor
Rutigliano, Tom	Achieving Equilibrium LLC	Other Supplier
Schneider, Jon	FirstEnergy Solutions Corp.	Transmission Owner
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable
Scoglietti, Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Seelaus, Tim	EMC Development Company, Inc.	Other Supplier
Sitarchyk, Mike	PJM Interconnection, LLC	Not Applicable
Strella, Lauren	PJM Interconnection, LLC	Not Applicable
Tangirala, Subha	ABB	Not Applicable
Thomson, Heather	Mid-Atlantic Renewable Energy	Not Applicable
Tsao, Stephanie	SPGlobal	Not Applicable
Ward, Michael	PJM Interconnection, LLC	Not Applicable
Weiss, Glenn	PJM Interconnection, LLC	Not Applicable
Wilhite, Chad	FirstEnergy Solutions Corp.	Transmission Owner
Williams, Amber	New York State Electric & Gas Corporation	Other Supplier
Wilmoth, Emily	Dominion Virginia Power	Not Applicable
Wood, Gordon	ETC Endure Energy L.L.C.	Other Supplier
Wood, Gordon	ETC Endure Energy L.L.C.	Other Supplier
Xenopoulos, Damon	Stone Mattheis Xenopoulos & Brew, PC	Not Applicable
Yeh, Eric	Baltimore Gas and Electric Company	Transmission Owner

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