

**Market Implementation Committee**  
**PJM Conference & Training Center, Audubon, PA**  
**December 14, 2016**  
**9:00 a.m. – 3:00 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. Minutes from the November 2, 2016 Market Implementation Committee meeting were approved by acclamation with **0 objections** and **0 abstentions**.
3. Ms. Christina Stotesbury, PJM, reviewed the MIC issues on [Issue Tracking](#).

## Endorsements/Approvals

4. **Governing document language for Operating Parameters**  
Mr. Tom Hauske, PJM, presented proposed revisions to the PJM Tariff, and Manuals 11, 12, and 28 to un-nest Operating Parameter definitions. **The committee endorsed the governing document revisions by acclamation with 0 objections and 0 abstentions.**
5. **Residual ARR Enhancements**  
Mr. Brian Chmielewski, PJM, presented the Residual ARR Enhancements issue and provided an overview of the proposed package and manual revisions. **The committee endorsed the proposed package by acclamation with 1 objection and 0 abstentions.**
6. **FTR Undiversified Credit Requirement**  
Mr. Harold Loomis, PJM, presented proposed revisions to the FTR undiversified credit adder that was developed at stakeholder request. **The committee endorsed the proposed revisions with 88 votes in favor (72%), 34 objections (28%) and 15 abstentions.**

## Working Issues

7. **Annual Revenue Requirements for new Black Start Units**  
Mr. Tom Hauske, PJM, continued the discussion on Annual Revenue Requirements for new Black Start units, displayed the current matrix, and asked stakeholders to provide additional solution options. Mr. Hauske will present a proposed solution for consideration at the January meeting.  
[Issue tracking: Annual Revenue Requirements for new Black Start Units](#)
8. **FERC Order 825 – Settlement Intervals**  
Mr. Ray Fernandez, PJM, provided an update on Order 825 5-minute settlements. PJM is proposing Tariff and Operating Agreement revisions to more clearly describe the settlement process and calculations. Proposed changes accounting for credits and charges to the Regulation, Synchronized Reserve, Non-Synchronized Reserve, Balancing Operating Reserve, Day-Ahead Operating Reserve, and Reactive Service

markets, including during a Performance Assessment Hour, were reviewed. Implicit Congestion and Losses examples were presented for discussion.

## First Readings

### 9. FERC Order 825 – Shortage Pricing

Ms. Lisa Morelli, PJM, presented a first read of the current Shortage Pricing proposal including manual revisions. PJM recommends updating the Operating Reserve Demand Curve to include an additional Step 2 when additional reserves are required to meet transient shortage conditions. Stakeholders had the opportunity to provide additional solution options for consideration. The committee will be asked to endorse a proposal during the January MIC meeting.

[Issue Tracking: Shortage Pricing Operating Reserve Demand Curve \(ORDC\) – Order 825](#)

### 10. NCEMC Problem Statement and Issue Charge

Ms. Debbie Britt, NCEMC, presented a pseudo-tie meter correction problem statement and issue charge as part of the Market Settlements Subcommittee. The committee will be asked to approve the problem statement and issue charge during the January MIC.

### 11. Manual 11 Revisions

Mr. Michael Olaleye, PJM, reviewed revisions to Manual 11: Energy & Ancillary Services Market Operations to account for the updated Regulation Requirement from the RMISTF. The committee will be asked to endorse these revisions during the January MIC. Revisions to Manual 12: Balancing Operations were presented for informational purposes only.

### 12. Manual 27 Revisions

Mr. Ray Fernandez, PJM, reviewed revisions to Manual 27: Open Access Transmission Tariff Accounting as part of an annual review process. The committee will be asked to endorse these revisions in January.

## Additional Updates

### 13. FERC Order 831: Offer Caps

Mr. Adam Keech, PJM, provided an overview of FERC Order 831, and summarized how the Final Rule issued on November 17, 2016 impacts offer capping in the PJM Markets.

### 14. Inter-Regional Coordination Activity

Mr. Tim Horger, PJM, reviewed Inter-Regional Coordination activity, including an update on the PSE&G/ConEd Wheel Modeling and PJM-NYISO JOA revisions.

### 15. Market Operations Price Transparency Update

Mr. Rami Dirani, PJM, presented a problem statement on market operations price transparency. This problem statement will seek endorsement at the December Markets and Reliability Committee meeting.

### 16. Manual 15 Revisions

Mr. Jeff Schmitt, PJM, presented additional proposed revisions to Manual 15: Cost Development Guidelines regarding Fuel Cost Policies, accounting for discussion that occurred at the November 17 MRC meeting.

## 17. Fuel Cost Policy Clarifications

Dr. Joe Bowring, Monitoring Analytics, provided follow-up discussion on gas penalties as part of Fuel Cost Policies.

## 18. Manual 18 Revisions

Mr. Jeff Bastian, PJM, and Dr. Joe Bowring, Monitoring Analytics, at the request of stakeholders, reviewed new joint revisions on behalf of PJM and the IMM to Manual 18: PJM Capacity Market that was recently endorsed at the November 17 MRC.

## 19. Extended Transmission Outages

Ms. Nancy Huang, PJM, presented extended transmission outages for the winter of 2016/2017.

## 20. Day-Ahead Market Results Posting

Mr. Todd Keech, PJM, provided an update on the Day-Ahead Market results posting time and reviewed future enhancements to synchronize the posting systems.

## 21. New Services Queue Application Process

Mr. Ahmad Hamad, PJM, provided an update on the new services queue application process which is a more robust system to enhance the user experience when submitting a new application for service.

## 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](#).

### FTR FERC Order Update

On September 15, 2016 the FERC issued a compliance directive requiring two specific FTR reforms regarding [Balancing Congestion and Stage 1 Retired Source Points](#). Protests have been filed at the FERC in response to PJM's compliance filing on November 14, 2016. PJM is actively reviewing these comments and will likely respond. In order to properly align with the commencement of the 2017/2018 Annual ARR Allocation, PJM will plan on presenting draft Manual 6 language at the January MIC meeting. The draft manual language will contain the implementation details highlighted in PJM's compliance filing. PJM has asked the FERC for a February 1, 2017 effective date for changes regarding Stage 1A replacements and a June 1, 2017 effective date for changes regarding Balancing Congestion and excess FTR congestion revenues.

Mr. Brian Chmielewski and Mr. Asanga Perera, PJM, were available during the meeting to answer questions.

### Intermittent Resources Subcommittee (IRS)

Meeting materials will be posted to the [IRS web site](#).

### 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

January 11, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
February 8, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
March 8, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
April 12, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
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

### In-Person Attendees:

Hendrzak, Chantal (Chair)	PJM Interconnection, LLC	Not Applicable
Stotesbury, Christina (Secretary)	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Benчек, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bowring, Joe	Monitoring Analytics, LLC	Not Applicable
Bresler, Stu	PJM Interconnection, LLC	Not Applicable
Britt, Debbie	North Carolina Electric Membership Corporation	Electric Distributor
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Brown, Rich	PJM Interconnection, LLC	Not Applicable
Bryson, Mike	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joe	PJM Interconnection, LLC	Not Applicable
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
Dirani, Rami	PJM Interconnection, LLC	Not Applicable
Drauschak, Lisa	PJM Interconnection, LLC	Not Applicable
Driscoll, MaryEllen	PJM Interconnection, LLC	Not Applicable
Esposito-Hils, Pati	TransCanada Power Marketing Ltd.	Generation Owner
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Filomena, Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Foladare, Kenneth	Tangibl	Not Applicable
Fondacci, Luis	North Carolina Electric Membership Corporation	Electric Distributor
Fuess, James	PBF Power Marketing LLC	Generation Owner
Hagaman, Derek	GT Power Group	Not Applicable
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
Holland, Risa	PJM Interconnection, LLC	Not Applicable
Horger, Tim	PJM Interconnection, LLC	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Horton, Dana	Appalachian Power Company	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, Ltd*	Not Applicable
Keech, Adam	PJM Interconnection, LLC	Not Applicable
Keech, Todd	PJM Interconnection, LLC	Not Applicable
Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Kogut, George	New York Power Authority	Other Supplier
Lieberman, Steven	Old Dominion Electric Cooperative	Electric Distributor
LoBue, Dan	Competitive Energy Services	Not Applicable
Longo, Lauren	Talen Energy Marketing, LLC	Generation Owner
Loomis, Harold	PJM Interconnection, LLC	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
O'Connell, Robert	Main Line Electricity Consultants	Not Applicable
Olaleye, Michael	PJM Interconnection, LLC	Not Applicable
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Pratzon, David	GT Power Group	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Schmitt, Jeff	PJM Interconnection, LLC	Not Applicable
Schuyler, Kenneth	PJM Interconnection, LLC	Not Applicable
Shparber, Steven	PJM Interconnection, LLC	Not Applicable
Smith, Melissa	PJM Interconnection, LLC	Not Applicable
Stadelmeyer, Rebecca	PJM Interconnection, LLC	Not Applicable
Strella, Lauren	PJM Interconnection, LLC	Not Applicable
Suh, Jung	Noble Americas Energy Solutions LLC	Other Supplier
Sweeney, Rory	RTO Insider	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Whitehead, Jeffrey	Direct Energy Business Marketing, LLC	Other Supplier

## In Attendance via Web-Ex / Teleconference:

Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Austin, Larry	PJM Interconnection, LLC	Not Applicable
Baker, Scott	PJM Interconnection, LLC	Not Applicable
Batta, Michael	Dominion Virginia Power	Not Applicable
Birnel, Bill	Westar Energy, Inc.	Other Supplier
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Bolan, Martin	FirstEnergy Solutions Corp.	Transmission Owner
Bonanni, John	NRG Power Marketing LLC	Generation Owner
Bruno, Pat	PJM Interconnection, LLC	Not Applicable
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Carmean, Gregory	Organization of PJM States	Not Applicable
Carro, Dan	Dominion Virginia Power	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
Crystle, Gil	UGI Development Company	Transmission Owner
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Cox, Jason	Dynegy Power Marketing, Inc.	Generation Owner
DeLosa, Joe	DE Public Service Commission	Not Applicable
Dessender, Harry	Customized Energy Solutions, Ltd.*	Not Applicable
Diamant, Martin	Eastern Generation, LLC	Generation Owner
Dillon, Matt	UGI Energy Services, LLC	Other Supplier
DiNicola, Laura	FirstEnergy Solutions Corp.	Transmission Owner
Domain, Christin	Mitsubishi Electric Power Products Inc.	Not Applicable
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner



Eirich, Christopher A.	GBE Energy Marketing Inc.	Other Supplier
Erbrick, Michael	Dhast Co, LLC	Not Applicable
Farber, John	DE Public Service Commission	Not Applicable
Fondacci, Luis	North Carolina Electric Membership Corporation	Electric Distributor
Foster, Dana	PPGI Fund A/B Development, LLC.	Generation Owner
Garnett, Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Gorman, Kevin	Highlands Energy Group LLC (The)	Other Supplier
Greening, Michele	PPL Electric Utilities Corp.	Transmission Owner
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Hagaman, Derek	GT Power Group	Not Applicable
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Hargett, Christopher	ConEdison Energy, Inc.	Other Supplier
Harmon, Michael	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Hepplewhite, Peter	DC Energy, LLC	Other Supplier
Herbert, Chris	Beacon Power, LLC	Other Supplier
Hoatson, Tom	Riverside Generating, LLC	Other Supplier
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hugee, Jacquelyn	PJM Interconnection, LLC	Not Applicable
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
Johnson, Nick	Tenaska Power Services Co.	Generation Owner
Keech, Jason	PJM Interconnection, LLC	Not Applicable
Kilgallen, Kevin	Iberdrola	Generation Owner
Kraemer, Neil	XO Energy, LLC	Other Supplier
Kuhn, Tyler	DC Energy, LLC	Other Supplier
Lacy, Catharine	Dominion Virginia Power	Not Applicable
Langbein, Peter	PJM Interconnection, LLC	Not Applicable
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Liang-Nicol, Cecilia	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Manning, James	North Carolina Electric Membership Corporation	Electric Distributor
McAlister, Lisa	American Municipal Power, Inc.	Electric Distributor
Mooney, Catherine	Monitoring Analytics, LLC	Not Applicable
Niswonger, Benjamin	DC Energy, LLC	Other Supplier
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
Ondayko, Brock	Appalachian Power Company	Transmission Owner
Olinger, Robert	Keystone Projects	Not Applicable
Patel, Keyur	PJM Interconnection, LLC	Not Applicable
Peoples, John	Duquesne Light Company	Transmission Owner
Price, Mark	DC Energy Mid-Atlantic, LLC	Other Supplier
Prokop, Brenda	ITC Mid-Atlantic Development LLC	Other Supplier
Rajan, Abhijit	Dominion Virginia Power	Not Applicable
Rayhorn, Carolyn	Dominion Virginia Power	Not Applicable
Robson, Matt	SESCO Enterprises LLC	Other Supplier
Rothey, Kristin	American Municipal Power, Inc.	Electric Distributor
Rutigliano, Tom	Achieving Equilibrium LLC	Other Supplier
Saini, Ishwar	Macquarie Energy LLC	Other Supplier
Sasser, Jonathan	Customized Energy Solutions, Ltd*	Not Applicable
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable
Scoglietti, Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Shah, Vijay	PJM Interconnection, LLC	Not Applicable
Shannon, Gary	AEP Energy Partners, Inc.	Other Supplier
Stern, Alexander	Public Service Electric & Gas Company	Transmission Owner
Summers, Ted	Direct Energy Business Marketing, LLC	Other Supplier

Tangirala, Subha	ABB	Not Applicable
Tapia, Evans	BioUrja Power, LLC	Other Supplier
Tatum, Ed	American Municipal Power	Electric Distributor
Theodore, Sharon	Electric Power Supply Association	Not Applicable
Thompson, Matthew	XO Energy, LLC	Other Supplier
Trayers, Barry	Citigroup Energy, Inc.	Other Supplier
Treich, Brianna	Interstate Gas Supply, Inc.	Other Supplier
Villeneuve, Alexandre	Mag Energy Solutions, Inc.	Other Supplier
Ward, Michael	PJM Interconnection, LLC	Not Applicable
Warner-Freeman, Jennifer	PJM Interconnection, LLC	Not Applicable
White, Doug	North Carolina Electric Membership Corporation	Electric Distributor
Wilhite, Chad	FirstEnergy Solutions Corp.	Transmission Owner
Williams, Amber	New York State Electric & Gas Corporation	Other Supplier
Williams, Stanley	PJM Interconnection, LLC	Not Applicable
Wilmoth, Emily	Dominion Virginia Power	Not Applicable
Wisersky, Megan	Madison Gas & Electric Co.	Other Supplier

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