



Market Implementation Committee
PJM Conference & Training Center, Audubon, PA
October 11, 2017
9:00 a.m. – 3:45 p.m. EPT

### Administration

- 1. Welcome, announcements and review of the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines Ms. Christina Stotesbury and Ms. Chantal Hendrzak
- 2. The committee approved the draft minutes from the September 13, 2017 Market Implementation Committee meeting by acclamation with 0 objections and 0 abstentions.
- 3. The active MIC issues on <u>Issue Tracking</u> were reviewed, and the prioritization and timeline to resolve the growing number of issues was addressed. Stakeholders who wish to provide feedback on the prioritization of MIC issues should contact Chantal Hendrzak or Christina Stotesbury.

Mr. Jeff Schmitt, PJM, provided an update on the Fuel Cost Policy Annual Review and Variable Operations & Maintenance review. Updated policies are required to be approved no later than November 1, 2017. Please contact <a href="mailto:FuelCostPolicyAnalysis@pjm.com">FuelCostPolicyAnalysis@pjm.com</a> to address Fuel Cost Policy concerns.

Ms. Jennifer Tribulski, PJM, provided an update on the proposed Virtual Transaction filing.

## **Endorsements/Approvals**

### 4. Revisions to Manual 11 for Intraday Offers

Ms. Lisa Morelli, PJM, presented revisions to Manual 11 and the Operating Agreement to amend the offer capping logic. The committee endorsed the Manual 11 and Tariff revisions by acclamation with 0 objections and 0 abstentions.

## 5. Revisions to Manual 11 for Energy Offer Verification

- A. Mr. Rami Dirani, PJM, presented revisions to Manual 11 associated with the offer verification process for the implementation of Order 831: Energy Offer Verification. The committee endorsed the Manual 11 revisions by acclamation with 1 objection and 21 abstentions.
- B. Dr. Catherine Tyler, Monitoring Analytics, presented concerns related to the offer verification process.

### 6. Proposed Credit Requirements for Regulation

Mr. Hal Loomis, PJM, presented Tariff revisions for a proposed change in credit requirements for regulation resources. The committee endorsed the Tariff revisions by acclamation with 0 objections and 0 abstentions.

### 7. Winter DR Load Calculation – Problem Statement and Issue Charge

Mr. Chuck Dugan, EKPC, presented a problem statement and issue charge related to the DR CP Winter Load calculation. The committee approved the problem statement and issue charge by acclamation with 0 objections and 0 abstentions.





# 8. Long Term FTR Market – Problem Statement and Issue Charge

Dr. Joe Bowring, Monitoring Analytics, reviewed a problem statement and issue charge related to the Long Term FTR Market. The committee approved the problem statement and issue charge with 108 (64%) in favor, 60 opposed (36%), and 53 abstentions.

Education on this issue will be postponed until January 2018.

## First Readings

### 9. Proposed FTR Credit Requirements for Transmission Upgrades

- A. Mr. Hal Loomis, PJM, presented a first read of a proposed change in FTR credit requirements to reduce exposure posed by congestion reductions resulting from major transmission upgrades. The committee will be asked to endorse the proposal at the November MIC meeting.
- B. Mr. Bruce Bleiweis, DC Energy, provided an update on the proposed FTR Credit requirements.

### 10. Proposed Price Responsive Demand

Mr. Pete Langbein, PJM, and Ms. Terri Esterly, PJM, presented a first read of a three proposals that came from the Demand Response Subcommittee to address Price Responsive Demand. The committee will be asked to endorse a proposal at the November MIC meeting.

### 11. Manual 11, 18, 27, 28, and 29 Revisions for 5-minute Settlements

Ms. Terri Esterly, PJM, and Mr. Ray Fernandez, PJM, presented a first read of revisions to Manuals 11, 18, 27, 28, and 29 associated with the implementation of 5-Minute Settlements. The committee will be asked to endorse the manual revisions at the November MIC meeting.

### Working Issues

# 12. Market Path/Interface Pricing Point Alignment

Mr. John Dadourian, Monitoring Analytics, reviewed the Market Path/Interface Pricing Point Alignment issue and continued education and discussion on the breaking of paths.

# 13. Transmission Penalty Factors

Mr. Devendra Canchi, Monitoring Analytics, reviewed the Transmission Penalty Factors issue approved at the August 9 MIC, and provided education.

### Additional Updates

### 14. Offer Cap Balancing Ratio

Mr. Jeff Bastian, PJM, reviewed the proposal to address an offer cap balancing ratio issue identified for the next BRA.

## 15. Interregional Coordination Activity

Mr. Tim Horger, PJM, will provide an update on Interregional Coordination efforts.





## 16. Ohio Valley Electric Corporation (OVEC) Integration

Mr. Scott Cunningham, OVEC, will provide an update on the OVEC integration proposal.

### 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 <u>DRS web site</u>.

## Intermittent Resources Subcommittee (IRS)

Meeting materials will be posted to the IRS web site.

### Manual 03 Revisions – Transmission Operations

Mr. Yuri Smolanitsky, PJM, was available to answer questions related to Manual 03, version 52 revisions. Materials were 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**

November 8, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
December 13, 2017	9:00 a.m.	PJM Interconnection – Conference & Training Center
January 10, 2018	9:00 a.m.	PJM Interconnection – Conference & Training Center
February 7, 2018	9:00 a.m.	PJM Interconnection – Conference & Training Center
March 7, 2018	9:00 a.m.	PJM Interconnection – Conference & Training Center
April 4, 2018	9:00 a.m.	PJM Interconnection – Conference & Training Center
May 2, 2018	9:00 a.m.	PJM Interconnection – Conference & Training Center
June 6, 2018	9:00 a.m.	PJM Interconnection – Conference & Training Center

### **In-person Meeting Attendees**

Hendrzak, Chantal (Chair)	PJM Interconnection, LLC	Not Applicable
Stotesbury, Christina (Secretary)	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Benchek, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Borgatti, Michael	Gabel and Associates	Not Applicable
Bowring, Joseph	Monitoring Analytics	Not Applicable
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Canchi, Devendra	Monitoring Analytics, LLC	Not Applicable





Canter, Dave		
Carroll, Rebecca		
Ciabattoni, Joe		
Dadourian, John		
Dantonio, Phil		
Daugherty, Suzanne		
Dirani, Rami		
Drauschak, Lisa		
Driscoll, Mary Ellen		
Dugan, Chuck		

Filomena, Guy Fitch, Neal Foladare, Kenneth Ford, Adrien Fuess, James Greiner, Gary

Handlin, Michael Hauske, Thomas Holter, Natasha Horger, Tim Hudis, Gabriella Hyzinski, Tom

Jardot, Gina Johnson, Carl Kauffman, Brian Kogut, George Langbein, Pete Lieberman, Steven Loomis, Harold LOWE, CONNIE Mabry, David Manion, Evelvn

Midgley, Sharon Morelli, Lisa O'Hara, Chris Pakela, Greq Pilong, Melissa

Esterly, Theresa Fernandez, Ray

Maxwell, Melissa

Pratzon, David Romero-Luna, Joel **AEP** PJM Interconnection, LLC

PJM Interconnection, LLC Monitoring Analytics, LLC PJM Interconnection, LLC

East Kentucky Power Cooperative, Inc.

PJM Interconnection, LLC PJM Interconnection, LLC

Customized Energy Solutions, Ltd. NRG Power Marketing LLC

**Tangibl** 

Old Dominion Electric Cooperative

PBF Power Marketing LLC

PSEG Energy Resources and Trade LLC

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection. LLC PJM Interconnection, LLC Jersey Green Energy LLC

**GT** Power Group

Essential Power Rock Springs, LLC Customized Energy Solutions, Ltd.\*

NRG Curtailment Solutions New York Power Authority PJM Interconnection, LLC American Municipal Power, Inc. PJM Interconnection, LLC **Dominion Virginia Power** McNees Wallace & Nurick LLC PJM Interconnection, LLC PJM Interconnection, LLC

Exelon Business Services Company, LLC

PJM Interconnection, LLC PJM Interconnection, LLC DTE Energy Trading, Inc. PJM Interconnection, LLC **GT Power Group** 

Monitoring Analytics

**Transmission Owner** 

Not Applicable Not Applicable

**Transmission Owner** 

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

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

Not Applicable Other Supplier Other Supplier Not Applicable **Electric Distributor** Not Applicable Not Applicable Not Applicable Not Applicable

Not Applicable **Transmission Owner** 

Not Applicable Not Applicable Other Supplier Not Applicable Not Applicable Not Applicable

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Scheidecker, Paul Schmitt, Jeffrey Sweeney, Rory Trayers, Barry Tribulski, Jennifer Tyler, Catherine Vayda, Brian Wadsworth, Joseph

Wadsworth, Joseph Warner-Freeman, Jennifer Whitehead, Jeffrey Williams, Stanley PJM Interconnection, LLC PJM Interconnection, LLC RTO Insider

Citigroup Energy, Inc. PJM Interconnection, LLC Monitoring Analytics Borough of Park Ridge, NJ

Vitol Inc.

PJM Interconnection, LLC

**GT** Power Group

PJM Interconnection, LLC

Not Applicable
Not Applicable
Not Applicable
Other Supplier
Not Applicable
Not Applicable
Electric Distributor
Other Supplier
Not Applicable
Not Applicable
Not Applicable
Not Applicable

### WebEx Attendees

Anderson, Jared
Barker, Jason
Bhavaraju, Murty
Bolan, Martin
Bresler, Stu
Britt, Debbie
Brodbeck, John
Budney, Dave
Campbell, Bruce
Carmean, Gregory
Cawley, Troy
Celestine, Kizi

Cerchio, Gerard Chintapalli, Raj Chisling, Brian Cox, Phil Coyne, Suzanne Creem, Elliot Croop, Danielle Crystle, Gil

Cummings, Bridgid Cunningham, Scott D'Antonio, Phil Del Viscio, Mike DeLosa, Joe DePillo, Ray Dillon, Matt Domian, Christin S&P Global

Exelon Business Services Company, LLC

PJM Interconnection, LLC FirstEnergy Solutions Corp. PJM Interconnection, LLC Dominion Virginia Power

EDP Renewables North America, LLC

PJM Interconnection, LLC EnergyConnect, Inc.

**OPSI** 

PJM Interconnection, LLC Appalachian Power Company Monitoring Analytics, LLC

Galt Power Inc.

Simpson Thacher & Bartlett, L.P. Appalachian Power Company PJM Interconnection, LLC

Comverge

PJM Interconnection, LLC
UGI Development Company
PJM Interconnection, LLC
Ohio Valley Electric Corp
PJM Interconnection, LLC
PJM Interconnection, LLC
DE Public Service Commission

PSEG Energy Resources and Trade LLC

**UGI** Development Company

Mitsubishi Electric Power Products Inc.

Not Applicable

**Transmission Owner** 

Not Applicable

**Transmission Owner** 

Not Applicable Not Applicable Other Supplier Not Applicable Other Supplier Not Applicable

Not Applicable
Transmission Owner

Not Applicable Other Supplier Not Applicable Transmission Owner

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Transmission Owner

Not Applicable Generation Owner Not Applicable Not Applicable Other Supplier Generation Owner

Not Applicable





Doolittle, Robin Drom, Rick Fan, Zhenyu Farber, John Garnett, Bryan Gebolys, Debbie Genuario, Gabby Gilani, Rehan Giraldo, Juan Gorman, Kevin

Haas, Howard Hanser, Erik Harmon, Mike Hayik, Seth Henry, Michelle Hepplewhite, Peter Hoatson, Tom Hohenshilt, Jennifer Holland, Risa

Horning, Lynn Marie Hsia, Eric Hurwich, Mark Hyatt, John Janicki, Diane Josyula, Siva Kaczanowski, Marek Karnik, Rashmi

Kenney, Susan Kimmel, David Kingston, Amber Kinser, Cynthia Knies, Heather Lejcar, Jamie Leopold, Chris Libbos, Robin Lin, Michael Lind, Clarke

Lokhandwalla, Faizmin Mae Velasco, Cheryl Marcino, Angelo Markiewicz, Cindy Martin, Valerie Royal Bank of Canada
Eckert Seamans
PJM Interconnection, LLC
DE Public Service Commission

Duke Energy Ohio, Inc.

Public Utilities Commission of Ohio (The)

PJM Interconnection, LLC ConEdison Energy, Inc. Monitoring Analytics, LLC

Highlands Energy Group LLC (The)

Monitoring Analytics

Michigan Public Service Commission

Union Electric Company d/b/a Ameren Missouri

Monitoring Analytics, LLC

American Transmission Systems, Inc.

DC Energy East, LLC Riverside Generating, LLC Talen Energy Marketing, LLC PJM Interconnection, LLC

LMH Energy

PJM Interconnection, LLC Elliott Bay Energy Trading, LLC

Monitoring Analytics

Boston Energy Trading & Marketing, LLC

**Monitoring Analytics** 

Baltimore Gas and Electric Company

Other

PJM Interconnection, LLC PJM Interconnection, LLC

North Carolina Electric Membership Corp. Tennessee Department of Agriculture EDF Trading North America, LLC Allegheny Electric Cooperative, Inc. Appalachian Power Company

Allegheny Electric Supply Company, L.L.C.

DC Energy

**Powerex Corporation** 

Dynegy

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

The Federal Energy Regulatory Commission

Other Supplier Not Applicable Not Applicable Not Applicable

**Transmission Owner** 

Not Applicable Not Applicable Other Supplier Not Applicable Other Supplier Not Applicable

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Electric Distributor

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

Not Applicable





Marton, David Marzewski, Skyler McDaniel, John McKee, Stephen McLaughlin, Jeffrey Mehta, Chirag Metzler, Jakob Miller, John

Miller, John
Olaleye, Michael
Ondayko, Brock
O'Neill, Jack
Patel, Keyur
Patten, Kevin
Peebles, Andy
Pelletier, Eveline
Peoples, John
Philips, Marji
Piovesan, Lori

Price, Mark Price, Ruth Prokop, Brenda Raghavan, Vijay Rajan, Abhijit Ramsey, James

Powers, Sean

Rayhorn, Carolyn Reams, Will Riehl, John Riopko, Eric Rohrbach, John Rothey, Kristin Ruck, Andrew Rutioliano, Tom

Rutigliano, Tom Rutledge, Craig Sasser, Jonathan Schneider, Jon Schuyler, Ken Schweizer, David Seiler, Ken Shah, Vijay

Sillin, John

Sitarchyk, Mike

FirstEnergy Solutions Corp. Monitoring Analytics

Baltimore Gas and Electric Company Appalachian Power Company PJM Interconnection, LLC

**Durable Power** 

Castleton Commodities Merchant Trading L.P.

Commonwealth Edison Company
PJM Interconnection, LLC
Appalachian Power Company
PJM Interconnection, LLC
PJM Interconnection, LLC
Appalachian Power Company
Shell Energy North America (US), LP

Hydro-Quebec

Duquesne Light Company Direct Energy Business, LLC

Powerex Corporation Linde Energy Services, Inc. DC Energy Mid-Atlantic, LLC

Division of the Public Advocate, State of DE

ITC Mid-Atlantic Development LLC Talen Energy Marketing, LLC

Dominion Resources Suffolk Fund LLC Dominion Virginia Power

Allegheny Electric Cooperative, Inc.

The Federal Energy Regulatory Commission

Exelon Generation Co., LLC

Southern Maryland Electric Cooperative

American Municipal Power, Inc.

PSEG Energy Resources and Trade, LLC

Achieving Equilibrium LLC Appalachian Power Company Customized Energy Solutions, Ltd.\*

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

The Federal Energy Regulatory Commission

PJM Interconnection, LLC

Transmission Owner Not Applicable

Transmission Owner Transmission Owner

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Other Supplier
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End User Customer
Other Supplier
End User Customer

Other Supplier Generation Owner

Not Applicable Other Supplier Not Applicable Electric Distributor Not Applicable

Generation Owner
Electric Distributor
Electric Distributor
Other Supplier
Other Supplier

Transmission Owner Not Applicable

Transmission Owner

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Sock, Bryan Souder, Michelle Souder, Rich Stone, Andy Swez, John Tangirala, Subha

Tangirala, Subha Thompson, Matthew Thomson, Heather Tibbetts, Maeve Villeneuve, Alexandre

Ward, Michael
Wellenius, Kevin
Wilhite, Chad
Wilkie, Brian
Wilmoth, Emily
Wunderlich, David

Xu, Xu Yang, Dan

Author: Christina Stotesbury

PSEG Energy Resources and Trade LLC

PJM Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC Duke Energy Kentucky, Inc.

ABB

XO Energy MA, LP

Mid-Atlantic Renewable Energy

Pierce Atwood

MAG Energy Solutions, Inc. PJM Interconnection, LLC

FTI Consulting

FirstEnergy Solutions Corp.

Consolidated Edison Solutions, Inc.

Dominion Virginia Power Royal Bank of Canada PJM Interconnection, LLC

Parma Energy LLC

**Transmission Owner** 

Not Applicable Not Applicable Not Applicable

**Transmission Owner** 

Not Applicable
Other Supplier
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**Transmission Owner** 

Other Supplier
Not Applicable
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Other Supplier

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