

**Market Implementation Committee**  
**PJM Conference & Training Center, Audubon, PA**  
**July 13, 2016**  
**9:30 a.m. – 4:00 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. Draft minutes from the June 8, 2016 Market Implementation Committee meeting and the June 29, 2016 Special Session of the Market Implementation Committee were both endorsed by acclamation with 0 objections and 0 abstentions.
3. Review MIC [Issue Tracking](#)

## Endorsements/Approvals

4. **Manual 11 – Day-Ahead Scheduling Reserve**  
Mr. Keyur Patel, PJM, reviewed changes to Manual 11 – Energy & Ancillary Services Market Operations for the Day-Ahead Scheduling Reserve (DASR).  
**The committee endorsed these changes by acclamation with 0 objections and 0 abstentions.**  
[Issue Tracking: Day-Ahead Scheduling Reserve](#)
5. **Periodic Review for Manual 29 – Billing**  
Mr. Dave Budney, PJM, reviewed changes to Manual 29 – Billing as part of the periodic review process.  
**The committee endorsed these changes by acclamation with 0 objections and 0 abstentions.**
6. **Auction Specific Bilateral Transactions**  
Ms. Jen Tribulski, PJM, presented PJM's proposed changes to Auction Specific Bilateral Transactions.  
**The committee endorsed these changes by acclamation with 0 objections and 4 abstentions.**  
[Issue Tracking: Auction Specific Bilateral Transactions](#)
7. **Annual Revenue Requirements for new Black Start Units**  
Mr. Tom Hauske, PJM, reviewed a problem statement and issue charge associated with determining Annual Revenue Requirements for new Black Start Units.  
**The committee approved this problem statement and issue charge with 0 objections and 0 abstentions.**

## Working Issues

8. **Residual ARR Enhancements**  
Mr. Brian Chmielewski, PJM, reviewed Residual Auction Revenue Rights education as part of the problem statement and issue charge that was approved in June to discuss potential enhancements to the Residual Auction Revenue Rights (ARR) process.  
[Issue Tracking: Residual ARR Enhancements](#)

## 9. **Operating Parameter Discussion**

Mr. Keyur Patel, PJM, provided information on the costs associated with implementing the operating parameters being discussed. Mr. Tom Hauske, PJM, continued the discussion around un-nesting Operating Parameter definitions in Manuals 11, 15 and 28. Survey polling questions will be provided with the August meeting materials and a live poll will be taken on Survey Monkey during the meeting, with results provided immediately following. The committee will be asked to endorse a package at the September meeting.

[Issue Tracking: Operating Parameter Definitions](#)

## 10. **Release of Capacity in 17/18 Delivery Year 3<sup>rd</sup> Incremental Auction**

A. Mr. Jeff Bastian, PJM, continued the discussion in response to the reporting directive in FERC Docket ER16-532 concerning the release of annual capacity in the 2017/2018 Delivery Year 3<sup>rd</sup> Incremental Auction related to excess capacity procured in the Capacity Performance Transition Incremental Auction.

B. Mr. Mike Borgatti, Gabel Associates, presented a proposal on behalf of NextEra.

C. Mr. Jeff Whitehead, Direct Energy, presented a proposal on behalf of Direct Energy.

PJM is taking into consideration all proposals received and will provide an update at the August meeting.

## 11. **Spot-in Transmission Service for Energy Imports from NYISO**

Mr. Chris Pacella, PJM, provided additional education on spot-in transmission service for energy imports from NYISO. The committee will be asked to develop design components and solution options at the August meeting.

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

## 12. **Manual 15 – Cost Development Guideline Changes and Fuel Cost Policy**

Mr. Jeff Schmitt, Mr. Stu Bresler, PJM, and Dr. Joe Bowring, Monitoring Analytics, led a discussion on Manual 15 and the Fuel Cost Policy process. PJM and the IMM are still in the process of reviewing and discussing the Fuel Cost Policy requirements given the recent FERC order. A Special Session of the MIC to continue working this item has been scheduled for Wednesday, July 27 from 9:00 a.m. to 12:00 p.m.

## First Readings

### 13. **Periodic Review for Manual 11 – Energy & Ancillary Services Market Operations**

Mr. Tong Zhao, PJM, and Ms. Lisa Morelli, PJM, reviewed changes to Manual 11 – Energy & Ancillary Services Market Operations as part of the periodic review process. The Committee will be asked to endorse these changes at the August MIC meeting.

## Additional Updates

### 14. **Manual 12 – Balancing Operations Changes**

Ms. Danielle Croop, PJM, provided an update on proposed changes to Manual 12 – Balancing Operations that will be endorsed at the August Operating Committee (OC) meeting.

### 15. **Inter-Regional Coordination Activity**

Mr. Asanga Perera, PJM, provided an overview of PJM and NYISO discussions on the PSE&G/ConEd Wheel Modeling.

## 16. Capacity Market Additions (3:15-3:45)

Dr. Joe Bowring, Monitoring Analytics, reviewed new generation in the PJM Capacity Market for Delivery Years 2007/2008 through 2018/2019.

## 17. New 500kV Transmission Line Designation

Mr. Paul Santarelli, PPL Electric Utilities, reviewed a new 500kV transmission line designation resulting from the cut-in of the new Shickshinny 500kV switchyard in PPL.

## Informational Section

### ComEd Tower Outages Impact

An informational only presentation was included with the July MIC materials. Mr. Adam Keech, PJM, was available to answer questions on the ComEd Tower Outages.

### 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 Center

The replacement tool for eFTR, FTR Center, **will go live on July 11, 2016**. Information regarding the FTR Center can be found on the [FTR Center page](#). Stakeholders are encouraged to utilize FTR Center instead of eFTR and [FTR Center train](#) to test any eFTR tasks they currently perform. Both eFTR train and production environments will be retired during 4<sup>th</sup> quarter 2016. A future update will be provided with exact retirement timeline. Since all tasks performed in FTR Center during parallel operations will also be created in eFTR, there is no need to use both systems for the same tasks. While no functionality or business rules have changed in the development of FTR Center, new security controls will impact participants implementing browserless communications in FTR Center. Stakeholders interested in receiving updates on FTR Center should self-subscribe to “eFTR / FTRCenter” via [My Email Lists](#) by selecting “PJM Tools”. Questions/feedback regarding FTR Center should be sent to [FTRCenterSupport@pjm.com](mailto:FTRCenterSupport@pjm.com)

### Intermittent Resources Subcommittee (IRS)

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

### Inter-Regional Coordination Update

An informational only presentation was included with July MIC materials. Mr. Asanga Perera, PJM, was available to answer questions on inter-regional coordination efforts.

### 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 10, 2016	9:30 a.m.	PJM Interconnection – Conference & Training Center
September, 14, 2016	9:30 a.m.	PJM Interconnection – Conference & Training Center
October 5, 2016	9:30 a.m.	PJM Interconnection – Conference & Training Center
November 2, 2016	9:30 a.m.	PJM Interconnection – Conference & Training Center
December 14, 2016	9:30 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
Benckek, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Transmission Owner
Canter, David	Appalachian Power Company	Transmission Owner
Crystle, Gil	UGI Development Company	Transmission Owner
Dillon, Matthew	UGI Development Company	Generation Owner
Filomena, Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Foladare, Kenneth	IMG Midstream LLC	Generation Owner
Greening, Michele	Talen Energy Marketing, LLC	Generation Owner
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Griffiths, Dan	Consumer Advocates of PJM States	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission 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
Kerecman, Joseph	Calpine Energy Services, LP	Generation Owner
Kogut, George	New York Power Authority	Other Supplier
Lieberman, Steven	Old Dominion Electric Cooperative	Electric Distributor
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Peoples, John	Duquesne Light Company	Transmission Owner
Santarelli, Paul	Talen Energy Marketing, LLC	Generation Owner
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
Wadsworth, Joseph	Vitol Inc.	Other Supplier
Whitehead, Jeffrey	Direct Energy Business Marketing, LLC	Other Supplier

## Also in Attendance

Advena, Chris	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Bastian, Jeff	PJM Interconnection, LLC	Not Applicable
Borgatti, Michael	Gabel and Associates	Not Applicable
Bowring, Joe	Monitoring Analytics, LLC	Not Applicable
Bresler, Stu	PJM Interconnection, LLC	Not Applicable
Budney, David	PJM Interconnection, LLC	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable

Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joe	PJM Interconnection, LLC	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
Domian, Christine	Mitsubishi Electric Power Products Inc.	Not Applicable
Drauschak, Lisa	PJM Interconnection, LLC	Not Applicable
Egan, Amanda	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
Herel, Suzanne	RTO Insider	Not Applicable
Holland, Risa	PJM Interconnection, LLC	Not Applicable
Holter, Natasha	PJM Interconnection, LLC	Not Applicable
Hudis, Gabrielle	Gabel and Associates	Not Applicable
Keech, Adam	PJM Interconnection, LLC	Not Applicable
Kilgallen, Kevin	Iberdrola	Generation Owner
Loomis, Harold	PJM Interconnection, LLC	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Mooney, Catherine	Monitoring Analytics, LLC	Not Applicable
O'Connell, Robert	Main Line Electricity Market Consultants	Not Applicable
Pacella, Chris	PJM Interconnection, LLC	Not Applicable
Patel, Keyur	PJM Interconnection, LLC	Not Applicable
Perera, Asanga	PJM Interconnection, LLC	Not Applicable
Pratzon, David	GT Power Group	Not Applicable
Quintavalla, Ginger	PJM Interconnection, LLC	Not Applicable
Schmitt, Jeff	PJM Interconnection, LLC	Not Applicable
Sechrist, Erin	PJM Interconnection, LLC	Not Applicable
Shparber, Steven	PJM Interconnection, LLC	Not Applicable
Smith, Melissa	PJM Interconnection, LLC	Not Applicable
Souder, Richard	PJM Interconnection, LLC	Not Applicable
Stadlmeyer, Rebecca	PJM Interconnection, LLC	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Warner-Freeman, Jennifer	PJM Interconnection, LLC	Not Applicable

## In Attendance via Web Ex / Teleconference

Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Austin, Larry	PJM Interconnection, LLC	Not Applicable
Bloom, David	Baltimore Gas and Electric Company	Not Applicable
Borradaile, Mike	PJM Interconnection, LLC	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Generation Owner
Brown, Rich	PJM Interconnection, LLC	Not Applicable
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Canchi, Devendra	Monitoring Analytics, LLC	Not Applicable
Carmean, Gregory	Organization of PJM States (OPSI)	Not Applicable
Chocarro, Iker	E.ON Climate & Renewables North America, Inc.	Generation Owner
Cocco, Michael	EDP Renewables North America, LLC	Electric Distributor
Coll, Daniel	PJM Interconnection, LLC	Not Applicable
Cox, EdwardP	Appalachian Power Company	Transmission Owner
Daniel, Debbie	PGI.com	Not Applicable



Daugherty, Suzanne	PJM Interconnection, LLC	Not Applicable
Davis, Connie	City of Cleveland, DPU, Div of Cleveland Public Pwr	Electric Distributor
DeLosa, Joseph	DE Public Service Commission	Not Applicable
Demuynck, Rene	NJ Board of Public Utilities	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
Dirani, Rami	PJM Interconnection, LLC	Not Applicable
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ellen Driscoll, Mary	PJM Interconnection, LLC	Not Applicable
Erbrick, Michael	DhastCo, LLC	Not Applicable
Esposito-Hils, Pati	TransCanada Power Marketing Ltd.	Generation Owner
Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Fereshetian, Damon	PJM Interconnection, LLC	Not Applicable
Fitzpatrick, Brian	PJM Interconnection, LLC	Not Applicable
Garnett, Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gebolys, Debbie	Public Utilities Commission of Ohio	Not Applicable
Greening, Michele	Talen Energy Marketing, LLC	Generation Owner
Gresh, Kevin	PJM Interconnection, LLC	Not Applicable
Hamilton, Robert	Plymouth Energy LLC	Not Applicable
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Harmon, Michael	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Hart, Ronald	Virginia Electric & Power Company	Transmission Owner
Hastings, David	DHASTCO	Not Applicable
Helmick, Douglas	Keystone Projects	Not Applicable
Helms, Joseph	Rainbow Energy Marketing Corporation	Other Supplier
Hoatson, Tom	LS Power Development, LLC	Not Applicable
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Jablonski, Jim	Vineland Municipal Electric Utility	Electric Distributor
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
jm@cci.com	Castleton Commodities International LLC	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd*	Not Applicable
Johnson, Nick	Tenaska Power Services Co.	Not Applicable
Jones, Ryan	Allegheny Electric Cooperative, Inc.	Transmission Owner
Kaczanowski, Marek	Baltimore Gas and Electric Company	Transmission Owner
Keech, Jason	PJM Interconnection, LLC	Not Applicable
Keefer, Brian	Dominion Energy Marketing, Inc.	Generation Owner
Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Kraemer, Neil	XO Energy MA, L.P.	Other Supplier
Lacy, Catharine	Dominion Virginia Power	Not Applicable
Leasure, Jill	Keystone Projects	Not Applicable
Leopold, Chris	Appalachian Power Company	Transmission Owner
Lind, Clarke	Powerex Corporation	Other Supplier
Little, Tyler	Direct Energy Business, LLC	Other Supplier
Malkin, David	KOREnergy, Ltd.	Other Supplier
Manning, James	North Carolina Electric Membership Corporation	Electric Distributor
Marton, David	FirstEnergy Solutions Corp.	Transmission Owner
McAlister, Lisa	American Municipal Power, Inc.	Electric Distributor

McLaughlin, Jeffrey	PJM Interconnection, LLC	Not Applicable
Militello, Nicole	PJM Interconnection, LLC	Not Applicable
Miller, John	Commonwealth Edison Company	Transmission Owner
Mok, Alan	Duke Energy Kentucky, Inc.	Transmission Owner
Morelli, Lisa	PJM Interconnection, LLC	Not Applicable
Neubrandner, Kerry	DC Energy, LLC	Other Supplier
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
Olaleye, Michael	PJM Interconnection, LLC	Not Applicable
Ondayko, Brock	Appalachian Power Company	Transmission Owner
O'Neill, Jack	PJM Interconnection, LLC	Not Applicable
Price, Mark	DC Energy Mid-Atlantic, LLC	Other Supplier
Rajan ES, Abhijit	Dominion Resources	Not Applicable
Rayhorn, Carolyn	Dominion Virginia Power	Not Applicable
Rutigliano, Tom	Achieving Equilibrium LLC	Other Supplier
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Schneider, Jon	FirstEnergy Solutions Corp.	Transmission Owner
Schum, Alice	Illinois Municipal Electric Agency	Electric Distributor
Scoglietti, Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Shanker, Roy	Illinois Municipal Electric Agency	Other Supplier
Shannon, Gary	Appalachian Power Company	Transmission Owner
Singer, Chad	Fellon McCord	Not Applicable
Sitarchyk, Mike	PJM Interconnection, LLC	Not Applicable
Slagel, Ronald	Other	Not Applicable
Smith, Kara	Buckeye Power, Inc.	Electric Distributor
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Sweeney, Rory	RTO Insider	Not Applicable
Thomson, Heather	Mid-Atlantic Renewable Energy	Not Applicable
Treich, Brianna	Interstate Gas Supply, Inc.	Other Supplier
Walter, Laura	PJM Interconnection, LLC	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
Williams, Kent	Calpine Energy Services, L.P.	Generation Owner
Wilson, James	Wilson Energy Economics	Not Applicable
Wisersky, Megan	Madison Gas & Electric CO	Other Supplier
Wong, Bryant	ABB Network Management	Not Applicable
Wunderlich, David	Royal Bank of Canada	Other Supplier
Wynn, Laura	Stone Mattheis Xenopoulos & Brew, PC	Not Applicable
Yu, Joel	Rockland Electric Company	Transmission Owner
Zhao, Tong	PJM Interconnection, LLC	Not Applicable
Zilliox, Skylar	RES America Developments Inc	Generation Owner

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