

Market Implementation Committee  
PJM Conference & Training Center, Audubon, PA  
April 4, 2018  
9:00 a.m. – 3:45 p.m. EPT

## Administration

1. Ms. Christina Stotesbury, PJM, provided announcements, reviewed the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines, and [Issue Tracking](#).
2. The committee approved the draft minutes from the March 7, 2018 Market Implementation Committee meeting by acclamation with 0 objections and 0 abstentions.
3. **Administration Updates**
  - A. Mr. Hal Loomis, PJM, provided an update on changes to the upcoming FTR Credit Auction.
  - B. Mr. Eric Hsia, PJM, provided an update on the Regulation Filing from FERC, Docket ER18-87-001.
  - C. Dr. Joe Bowring, Monitoring Analytics, provide an update on 2017 State of the Market Report Errata.

## Endorsements/Approvals

4. **Variable Operations & Maintenance Packages**
  - A. Ms. Melissa Pilong, PJM, reviewed all three solution packages to address the Variable Operations & Maintenance (VOM) Costs issue that were proposed in the VOM Special Session meetings.
  - B. Dr. Catherine Tyler, Monitoring Analytics, presented the IMM VOM proposal.
  - C. Mr. Gary Helm, PJM, provided an update on the 2018 Net CONE assessment and the impact on VOM.  
The committee endorsed two packages.  
The Default VOM package received greatest support and will move to the MRC as the main motion with 178 in favor (81%), 43 opposed (19%) and 7 abstentions.  
The PJM package was endorsed with 169 in favor (75%), 57 opposed (25%) and 3 abstentions.  
The IMM package was not endorsed with 24 in favor (11%), 200 opposed (89%), and 5 abstentions.  
The committee also preferred the Default VOM package over Status Quo with 139 in favor (71%) and 57 opposed (29%).  
[Issue Tracking: Variable Operations & Maintenance](#)
5. **Manual 28 Revisions**

Mr. Ray Fernandez, PJM, reviewed conforming revisions to Manual 28: Operating Agreement Accounting, to address changes based on a recent FERC Compliance Order and a technical correction for Revenue Data for Settlements calculation for generation resources.

The Committee endorsed the Manual 28 revisions by acclamation with 0 objections and 0 abstentions.

## First Readings

### 6. Manual 11 Revisions

Mr. Keyur Patel, PJM, presented a first read of conforming revisions to Manual 11: Energy & Ancillary Services Market Operations, related to the FERC Order on Virtual Bidding. The Committee will be asked to endorse the Manual 11 revisions at the May MIC Meeting.

## Working Issues

### 7. FTR Nodal Remapping

Mr. Brian Chmielewski, PJM, reviewed a draft proposal to address the FTR Nodal Remapping issue, and stakeholders were given an opportunity to propose options and packages.

[Issue Tracking: FTR Nodal Remapping](#)

### 8. Long Term FTR Auction

Mr. Brian Chmielewski, PJM, reviewed the Long Term FTR issue and presented a proposed package. Stakeholders were given an opportunity to provide interests and design components.

[Issue Tracking: Long Term FTR Auction](#)

### 9. FTR Forfeiture Rule

Mr. Seth Hayik, Monitoring Analytics, presented education on the FTR Forfeiture Rule.

[Issue Tracking: FTR Forfeiture Rule Changes](#)

### 10. Market Seller Offer Cap Balancing Ratio

A. Dr. Joseph Bowring, Monitoring Analytics, presented education on the Balancing Ratio issue. Dr. Bowring stated that Out of Scope Item #1, the general determination of the default Market Seller Offer Cap (MSOC), as  $\text{Net CONE} \times B$ , should be moved back in scope, as proposed changes to the Non-Performance Charge Rate can have an impact on the underlying equations used to derive the default MSOC as  $\text{Net CONE} \times B$ .

B. Mr. Pat Bruno, PJM, continued working the Offer Cap Balancing Ratio issue, and presented additional education and a draft solution for discussion. Stakeholders were given an opportunity to propose additional options and packages.

To address the Market Monitor's concern, a motion was made by Mr. Bob O'Connell, Panda Power Funds, to amend the Market Seller Offer Cap Balancing Ratio Issue Charge to allow discussion related to  $\text{Net CONE} \times B$  as the default MSOC (Out of Scope Item #1). The motion was seconded by Adrien Ford, Old Dominion Electric Cooperative.

**The committee endorsed the Issue Charge revisions be taken to the May MRC for a vote by acclamation with 0 objections and 12 abstentions.**

[Issue Tracking: Balancing Ratio Determination](#)

## 11. Must Offer Exception Process

Mr. Pat Bruno, PJM, presented education on the Must Offer Exception Process issue.

[Issue Tracking: Must Offer Exemption Process](#)

## 12. FERC Order 841 on Energy Storage

Ms. Laura Walter, PJM, provided an overview of the FERC Order 841 on Energy Storage. Stakeholder participation and feedback is requested at upcoming MIC special sessions. PJM's response to FERC is due on December 3, 2018.

## 13. Market Operations Price Transparency

Mr. Rami Dirani, PJM, provided an update on efforts to increase data transparency related to market operations and uplift. The proposed data postings, which require Manual 33 revisions, will be brought for a first read at the May MIC meeting.

[Issue Tracking: Market Operations Price Transparency](#)

## Additional Updates

### 14. SPS Retirement Notification – University Park North

Mr. Alan Engelmann, ComEd, presented the University Park Special Protection Scheme retirement.

### 15. Reactive Transfer Interface Definition Changes

Mr. Yuri Smolanitsky, PJM, presented updated Reactive Transfer Interface definitions.

### 16. Revisions to Manual 21: Rules and Procedures for Determination of Generating Capability

Mr. Jerry Bell, PJM, introduced potential changes to Manual 21 related to generator testing rules, and to ensure the language is consistent with the RAA. Additional special session meetings as part of the Planning Committee will be scheduled to review the Manual 21 revisions with members.

## 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](#).

### Interregional Coordination Update

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](#).

## Revisions to Manual 3: Transmission Operations

Materials are posted as informational only. Mr. Yuri Smolanitsky, PJM, was available for questions.

## Future Meeting Dates

May 2, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
June 6, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
July 11, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
August 8, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
September 12, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
October 10, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
November 7, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx
December 12, 2018	9:00 a.m.	PJM Conference & Training Center/ WebEx

## 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
Bell, Jerry	PJM Interconnection, LLC	Not Applicable
Benner, Scott	PJM Interconnection, LLC	Not Applicable
Borgatti, Michael	Gabel and Associates	Not Applicable
Bowring, Joe	Monitoring Analytics, LLC	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Callaghan, Chris	PJM Interconnection, LLC	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joseph	PJM Interconnection, LLC	Not Applicable
Crystle, Gil	UGI Development Company	Transmission Owner
D'Alessandris, Lou	FirstEnergy Solutions Corp.	Transmission Owner
Dillon, Matthew	UGI Development Company	Generation Owner
Dirani, Rami	PJM Interconnection, LLC	Not Applicable
Drauschak, Lisa	PJM Interconnection, LLC	Not Applicable
Driscoll, Mary Ellen	PJM Interconnection, LLC	Not Applicable
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Filomena, Guy	Customized Energy Solutions, Ltd.	Not Applicable
Foladare, Kenneth	Tangibl	Not Applicable

Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess, Christian	Other	Not Applicable
Fuess, James	PBF Power Marketing LLC	Generation Owner
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Haas, Howard	Monitoring Analytics, LLC	Not Applicable
Hayik, Seth	Monitoring Analytics, LLC	Not Applicable
Holter, Natasha	PJM Interconnection, LLC	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Horton, Dana	Appalachian Power Company	Transmission Owner
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hudis, Gabriella	Gabel and Associates	Not Applicable
Josyula, Siva	Monitoring Analytics	Not Applicable
Keech, Adam	PJM Interconnection, LLC	Not Applicable
Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Kogut, George	New York Power Authority	Other Supplier
Lieberman, Steven	American Municipal Power, Inc.	Electric Distributor
Loomis, Harold	PJM Interconnection, LLC	Not Applicable
Lowe, Connie	Dominion Virginia Power	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
O'Connell, Robert	PPGI Fund A/B Development, LLC	Not Applicable
Patel, Keyur	PJM Interconnection, LLC	Not Applicable
Philips, Marjorie	Direct Energy Business, LLC	Other Supplier
Pilong, Melissa	PJM Interconnection, LLC	Not Applicable
Pratzon, David	GT Power Group	Not Applicable
Romero-Luna, Joel	Monitoring Analytics	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Schmitt, Jeffrey	PJM Interconnection, LLC	Not Applicable
Sweeney, Rory	RTO Insider	Not Applicable
Trayers, Barry	Citigroup Energy, Inc.	Other Supplier
Tyler, Catherine	Monitoring Analytics	Not Applicable
Vayda, Brian	Borough of Park Ridge, NJ	Electric Distributor
Wadsworth, Joseph	Vitol Inc.	Other Supplier
Walter, Laura	PJM Interconnection, LLC	Not Applicable
Whitehead, Jeffrey	GT Power Group	Not Applicable
Wilkie, Brian	Rockland Electric Co.	Other Supplier

## WebEx Participants

Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Anderson, Jared	S & P Global	Not Applicable
Benckek, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bhavaraju, Murty	PJM Interconnection, LLC	Not Applicable
Bickerstaff, Dean	Sapphire Power Marketing LLC	Generation Owner
Bolan, Martin	FirstEnergy Solutions Corp.	Transmission Owner

Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Britt, Debbie	North Carolina Electric Membership Corporation	Electric Distributor
Brouillette, Kyle	Indiana Municipal Power Agency	Generation Owner
Brown, Rich	PJM Interconnection, LLC	Not Applicable
Brown, William	VECO Power Trading	Not Applicable
Bruno, Joshua	PJM Interconnection, LLC	Not Applicable
Bryson, Mike	PJM Interconnection, LLC	Not Applicable
Budney, Dave	PJM Interconnection, LLC	Not Applicable
Clark, Alden	DC Energy LLC	Other Supplier
Cloud, Cheryl	PJM Interconnection, LLC	Not Applicable
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Cockrell, Justin	DC Energy LLC	Other Supplier
Coyle, Billy	Dominion Energy Marketing, Inc.	Generation Owner
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
Cummings, Bridgid	PJM Interconnection, LLC	Not Applicable
D'Antonio, Phil	PJM Interconnection, LLC	Not Applicable
Davis, Elizabeth	Talen Energy Marketing, LLC	Generation Owner
DeLosa, Joe	DE Public Service Commission	Not Applicable
DePillo, Ray	PSEG Energy Resources and Trade LLC	Other Supplier
Diiorio, Michelle	PSEG Energy Resources and Trade LLC	Other Supplier
Dolan, Jim	PJM Interconnection, LLC	Not Applicable
Domian, Christin	Mitsubishi Electric Power Products Inc.	Not Applicable
Endress, Eric	PJM Interconnection, LLC	Not Applicable
Engelmann, Alan	Commonwealth Edison Company	Transmission Owner
Falin, Tom	PJM Interconnection, LLC	Not Applicable
Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Feierabend, Rick	Dominion Virginia Power	Not Applicable
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Fox, Angela	Wylan Energy, L.L.C.	Not Applicable
Garbini, Marjorie	Potomac Electric Power Company	Electric Distributor
Genuario, Gabrielle	PJM Interconnection, LLC	Not Applicable
Gokhale, Manali	DC Energy LLC	Other Supplier
Gorman, Kevin	Highlands Energy Group, LLC (The)	Other Supplier
Guerry, Katie	EnerNOC, Inc.	Other Supplier
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Harmon, Mike	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Hastings, David	Market Interconnection, LLC	Not Applicable
Hepplewhite, Peter	DC Energy LLC	Other Supplier
Higgins, Sharon	Duke Energy Commercial Asset Management, Inc.	Generation Owner
Hoang, Liam	PJM Interconnection, LLC	Not Applicable
Hoatson, Tom	Riverside Generating, LLC	Other Supplier
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Holland, Risa	PJM Interconnection, LLC	Not Applicable

Hollis, Gabriel	NextEra Energy Transmission, LLC	Other Supplier
Horger, Tim	PJM Interconnection, LLC	Not Applicable
Hurwich, Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Hyzinski, Tom	GT Power Group	Not Applicable
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
Jens, Tom	Black Oak Capital, LLC	Other Supplier
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Kaczanowski, Marek	Baltimore Gas and Electric Company	Transmission Owner
Kauffman, Brian	NRG Curtailment Solutions	Other Supplier
Kharod, Ankit	PJM Interconnection, LLC	Not Applicable
Kilgallen, Kevin	Avangrid Renewables LLC	Generation Owner
Kimmel, David	PJM Interconnection, LLC	Not Applicable
Kinser, Cynthia	Tennessee Department of Agriculture	Not Applicable
Kormos, Mike	Exelon Business Services Company, LLC	Transmission Owner
Kudryavtseva, Viktoriya	LS Power Transmission, LLC	Not Applicable
Kuo, David	DC Energy LLC	Other Supplier
LaRocque, Matt	PJM Interconnection, LLC	Not Applicable
Leasure, Jill	Keystone Projects	Not Applicable
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Leopold, Chris	Appalachian Power Company	Transmission Owner
Lin, Michael	DC Energy LLC	Other Supplier
Logan, Sharon	The Federal Energy Regulatory Commission	Not Applicable
Long, Amanda	PJM Interconnection, LLC	Not Applicable
Long, Matthew	AEP Energy Partners, Inc.	Other Supplier
Mae Velasco, Cheryl	PJM Interconnection, LLC	Not Applicable
Mancuso, Melanie	FirstEnergy Solutions Corp.	Transmission Owner
Manion, Evelyn	PJM Interconnection, LLC	Not Applicable
Mariam, Yohannes	Office of the Peoples Council for D.C.	End User Customer
Markiewicz, Cindy	FirstEnergy Solutions Corp.	Transmission Owner
Martin, Valerie	The Federal Energy Regulatory Commission	Not Applicable
Metzler, Jakob	Castleton Commodities Merchant Trading L.P.	Other Supplier
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Mok, Alan	Duke Energy Kentucky, Inc.	Transmission Owner
Morelli, Lisa	PJM Interconnection, LLC	Not Applicable
Nawaz, Zainab	NJ Board of Public Utilities	Not Applicable
Nix, Emma	PJM Interconnection, LLC	Not Applicable
Ondayko, Brock	Appalachian Power Company	Transmission Owner
O'Neill, Jack	PJM Interconnection, LLC	Not Applicable
Pakela, Gregory	DTE Energy Trading, Inc.	Other Supplier
Pakula, Maggie	Invenergy, LLC	Generation Owner
Park, Jinny	PJM Interconnection, LLC	Not Applicable
Pelletier, Eveline	Hydro-Quebec	Not Applicable
Peoples, John	Duquesne Light Company	Transmission Owner
Phillips, Amanda	Delaware Municipal Electric Corporation, Inc.	Electric Distributor

Phillips, Darlene	PJM Interconnection, LLC	Not Applicable
Poulos, Greg	CAPS	Not Applicable
Powers, Sean	Linde Energy Services, Inc.	End User Customer
Price, Mark	DC Energy Mid-Atlantic, LLC	Other Supplier
Price, Ruth Ann	Division of the Public Advocate of the State of DE	End User Customer
Prokop, Brenda	ITC Mid-Atlantic, LLC	Other Supplier
Quevada, Jason	PJM Interconnection, LLC	Not Applicable
Ramsey, James	Suffolk Fund, LLC	Other Supplier
Reeping, Bob	Ohio Edison Company	Transmission Owner
Riehl, John	The Federal Energy Regulatory Commission	Not Applicable
Robson, Matt	SESCO Enterprises, LLC	Other Supplier
Rocha-Garrido, Patricio	PJM Interconnection, LLC	Not Applicable
Rohrbach, John	Southern Maryland Electric Cooperative	Electric Distributor
Rothey, Kristin	American Municipal Power, Inc.	Electric Distributor
Ruck, Andrew	PSEG Energy Resources and Trade LLC	Other Supplier
Rushing, Nathan	CPV Maryland, LLC	Generation Owner
Rutigliano, Tom	Achieving Equilibrium LLC	Generation Owner
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Schneider, Jon	FirstEnergy Solutions Corp.	Transmission Owner
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable
Shah, Vijay	PJM Interconnection, LLC	Not Applicable
Shanker, Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Snyder, Sue	PJM Interconnection, LLC	Not Applicable
Souder, Dave	PJM Interconnection, LLC	Not Applicable
Souder, Michelle	PJM Interconnection, LLC	Not Applicable
Stone, Andy	PJM Interconnection, LLC	Not Applicable
Sturgeon, John	Duke Energy Carolinas, LLC	Other Supplier
Suh, Jung	Calpine Energy Services, L.P.	Generation Owner
Thompson, Matthew	XO Energy MA, LP	Other Supplier
Tibbetts, Maeve	Pierce Atwood	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Trinkle, Liz	PJM Interconnection, LLC	Not Applicable
Tsao, Stephanie	S & P Global	Not Applicable
Tutino, Joseph	PJM Interconnection, LLC	Not Applicable
Ward, Michael	PJM Interconnection, LLC	Not Applicable
Wei, Jane	Monitoring Analytics	Not Applicable
Wiegand-Jackson, Laurie	North America Power Partners LLC	Other Supplier
Williams, Stanley	PJM Interconnection, LLC	Not Applicable
Wilmoth, Emily	Dominion Virginia Power	Not Applicable
Wilson, James	Wilson Energy Economics	Not Applicable

Author: Christina Stotesbury

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)  
Visit [learn.pjm.com](http://learn.pjm.com), an easy-to-understand resource about the power industry and PJM's role.