

Market Implementation Committee  
PJM Conference & Training Center, Audubon, PA  
June 12, 2019  
9:00 a.m. – 12:15 p.m. EPT

## Administration

1. Ms. Bhavana Keshavamurthy and Ms. Chantal Hendrzak provided announcements; reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirement.

The Committee approved the draft minutes from the May 15, 2019 MIC meeting with **0 objections and 0 abstentions**.

Ms. Jennifer Tribulski, PJM, provided an update on the recent FERC clarification order in the FTR waiver proceeding. On June 5, 2019, in Docket Nos. ER18-2068-000 and ER18-2068-001, the Commission issued an Order Establishing Paper Hearing and Settlement Judge Procedures in response to PJM's clarification of the Commission's January 30, 2019 order denying PJM's request for waiver of certain liquidation rules related to an FTR default. The Commission is holding the paper hearing in abeyance pending the settlement process for 90 days, with the ability to seek a 30-day extension. The first settlement conference is scheduled to be held on June 19, 2019.

## Endorsements/Approvals

2. **Five Minute Dispatch and Pricing**  
Mr. Siva Josyula, Monitoring Analytics, presented the problem statement and issue charge related to Five Minute Dispatch and Pricing.  
**The committee approved the Issue Charge with 0 objections and 1 abstention.**

## First Readings

3. **Periodic Review of Manual 18**  
Ms. Terri Esterly, PJM, provided a first read of Manual 18 revisions as part of the periodic review.
4. **Periodic Review of Manual 28**  
Mr. Ray Fernandez, PJM, provided a first read of Manual 28 revisions as part of the periodic review.
5. **Manual 11, 15, and 18 revisions for Electric Storage Participation – FERC Order 841**
  - A. Ms. Laura Walter, PJM, provided a brief background on Order 841, and reviewed changes to Manual 11 – Energy & Ancillary Services Market Operations & Manual 18 – PJM Capacity Market, related to the FERC Order 841 compliance filing.
  - B. Ms. Danielle Croop, PJM, provided a review of Manual 15 – Cost Development Guidelines changes related to cost offers for batteries and flywheels.

[Issue Tracking: Electric Storage Participation FERC Order 841](#)

## 6. Modeling Units with Stability Limitations – Problem Statement & Issue Charge

This agenda item will be presented as a first read at the July MIC. Mr. Robert O’Connell, Panda Power Funds, will provide a first read of a problem statement and issue charge related to modeling units with stability limitations.

### Working Issues

## 7. Fast Start Pricing Order

Mr. Keyur Patel, PJM, reviewed updates on the fast start pricing implementation. Mr. Ray Fernandez, PJM, reviewed examples related to the fast start pricing implementation over payment issue. The fast start pricing implementation target date is January 2020. PJM will communicate the exact date once it has been finalized.

## 8. Interregional Incremental Auction Revenue Rights

Mr. Brian Chmielewski, PJM, provided education on Interregional Incremental Auction Revenue Rights (IARR).

[Issue Tracking: Interregional Incremental Auction Revenue Rights](#)

### Additional Items

## 9. Fuel Cost Policy Annual Review

Ms. Melissa Pilog, PJM, provided an overview of the Fuel Cost Policy deadlines for the upcoming annual review.

### 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](#).

## Future Meeting Dates

July 10, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
August 7, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
September 11, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
October 16, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
November 13, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
December 11, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx

Author: Bhavana Keshavamurthy

## In-Person Meeting Attendees

Names	Company Name	Sector
Hendrzak, Chantal (Chair)	PJM Interconnection, LLC	Not Applicable
Keshavamurthy, Bhavana (Secretary)	PJM Interconnection, LLC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Benchek, Jim	American Transmission Systems, Inc.	Transmission Owner
Borgatti, Michael	Gabel and Associates	Not Applicable
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Bruce, Susan	McNees Wallace & Nurick LLC	Not Applicable
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Canter, David	Appalachian Power Company	Transmission Owner
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joe	PJM Interconnection, LLC	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
D'Alessandris, Lou	FirstEnergy Solutions Corp.	Transmission Owner
Davis, Jim	Dominion Energy	Transmission Owner
DeVita, Thomas	PJM Interconnection, LLC	Not Applicable
Downs, Jere	PJM Interconnection, LLC	Not Applicable
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Filomena, Guy	Customized Energy Solutions, Ltd.	Not Applicable
Foldare, Kenneth	Tangible	Not Applicable
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Genuario, Gabrielle	PJM Interconnection, LLC	Not Applicable
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
Holter, Natasha	PJM Interconnection, LLC	Not Applicable
Horger, Tim	PJM Interconnection, LLC	Not Applicable
Horning, Lynn Marie	Customized Energy Solutions, Ltd.*	Not Applicable
Hyzinski, Tom	GT Power Group	Not Applicable
Josyula, Siva	Monitoring Analytics, LLC	Not Applicable
Lieberman, Steve	American Municipal Power, Inc.	Electric Distributor
Lowe, Connie	Dominion Virginia Power	Not Applicable
Lowenthal-Savy, Danielle	Monitoring Analytics, LLC	Not Applicable
Lu, Chenchao	PJM Interconnection, LLC	Not Applicable
Luna, Joel	Monitoring Analytics, LLC	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Morelli, Lisa	PJM Interconnection, LLC	Not Applicable
O'Connell, Robert	PPGI Fund A/B Development, LLC	Generation Owner
Patel, Keyurbhai	PJM Interconnection, LLC	Not Applicable
Pilong, Melissa	PJM Interconnection, LLC	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P	Generation Owner
Smith, Christen	RTO Insider	Not Applicable



# Draft Minutes

Starkov, Stefan  
 Suh, Jung  
 Sweeney, Rory  
 Tang, James  
 Thomas, Jack  
 Toomey, Megan  
 Trayers, Barry  
 Tribulski, Jennifer  
 Walter, Laura  
 Whitehead, Jeffrey

PJM Interconnection, LLC  
 Calpine Energy Services, L.P  
 GT Power Group  
 PJM Interconnection, LLC  
 PJM Interconnection, LLC  
 Talen Energy Marketing, LLC  
 Citigroup Energy, Inc.  
 PJM Interconnection, LLC  
 PJM Interconnection, LLC  
 GT Power Group

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

## Webex Meeting Attendees

Names	Company Name	Sector
Abramowitz, Jeremy	FERC	Not Applicable
Baker, Scott	PJM Interconnection, LLC	Not Applicable
Bruno, Joshua	PJM Interconnection, LLC	Not Applicable
Budney, Dave	PJM Interconnection, LLC	Not Applicable
Burdis, Tim	PJM Interconnection, LLC	Not Applicable
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Colbert, Cathleen	NRG Power Marketing LLC	Generation Owner
Crystle, Gil	UGI Development Company	Transmission Owner
Dasher, Brett	Energy Authority, Inc. (The)	Other Supplier
Davis, Elizabeth	PJM Interconnection, LLC	Not Applicable
DePillo, Ray	PSEG Energy Resources and Trade LLC	Transmission Owner
Diiorio, Michelle	PSEG Energy Resources and Trade LLC	Transmission Owner
DiNicola, Laura	FirstEnergy Solutions Corp.	Transmission Owner
Dixon, Chad	Customized Energy Solutions. Ltd	Not Applicable
Dolan, Jim	PJM Interconnection, LLC	Not Applicable
Domian, Christin	Mitsubishi Electric Power Products Inc.	Not Applicable
Drom, Richard	Eckert Seamans	Not Applicable
Duensing, Allison	Saracen Energy	Other Supplier
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Durinsky, Mike	FirstEnergy Solutions Corp.	Transmission Owner
Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Feller, John	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Gates, Terry	Appalachian Power Company	Transmission Owner
Garnett, Bryan	Duke Energy	Transmission Owner
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Guntle, Vince	UGI Development Company	Generation Owner
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Hastings, David	Market Interconnection LLC	Not Applicable
Heinle, Erik	D.C. Office of the People's Counsel	Not Applicable
Heisey, Bradley	Wolf Hills Energy, LLC	Generation Owner
Herel, Suzanne	PJM Interconnection, LLC	Not Applicable
Hoatson, Tom	LS Power	Not Applicable
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hurwich, Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
Jardot, Gina	Nautilus Power, LLC	Generation Owner
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable

Keenan, Mathew  
Kelly, Stephen  
Kenney, Susan  
Kimmel, David  
Kozhuharov, Dimitar  
Lejcar, Jamie  
Levitt, Andrew  
Libbos, Robin  
Long, Matthew  
Mae Velasco, Cheryl  
Markiewicz, Cindy  
Martin, Valerie  
Monzon, Stephanie  
O'Boyle, Brian  
Ondayko, Brock  
Pakela, Gregory  
Pelletier, Eveline  
Peoples, John  
Phillips, Darlene  
Phillips, Marjorie  
Poelstra, Tabatha  
Promubol, Jimmy  
Rajan, Abhijit  
Reeping, Bob  
Rohrbach, John  
Rumsey, Amanda  
Russo, Michael  
Salaneck, Alexandra  
Schum, Alice  
Schuyler, Ken  
Shah, Vijay  
Shanker, Roy  
Sillin, John  
Stefanowicz, Vince  
Stone, Andy  
Sturgeon, John  
Tangirala, Subha  
Warshel, Kim  
Williams, Stanley  
Wilson, Bram  
Wisersky, Megan  
Xu, Xu  
Zhou, Ming

Elwood Energy  
Brookfield Energy Marketing LP  
PJM Interconnection, LLC  
PJM Interconnection, LLC  
Delaware Municipal Electric Corporation, Inc.  
Allegheny Electric Cooperative, Inc.  
PJM Interconnection, LLC  
FirstEnergy Solutions Corp.  
Appalachian Power Company  
PJM Interconnection, LLC  
FirstEnergy Solutions Corp.  
The Federal Energy Regulatory Commission  
PJM Interconnection, LLC  
Consolidated Edison Solutions, Inc.  
Appalachian Power Company  
DTE Energy Trading, Inc.  
Hydro-Quebec  
Duquesne Light Company  
PJM Interconnection, LLC  
Direct Energy Business, LLC  
Appalachian Way Energy Partners  
Shell Energy North America (US), LP  
Dominion Resources  
Ohio Edison Company  
ACES Power  
PPL Electric Utilities Corp. dba PPL Utilities  
Monitoring Analytics, LLC  
Monitoring Analytics, LLC  
Illinois Municipal Electric Agency  
PJM Interconnection, LLC  
PJM Interconnection, LLC  
H.Q. Energy Services (U.S.), Inc.  
The Federal Energy Regulatory Commission  
PJM Interconnection, LLC  
PJM Interconnection, LLC  
Duke Energy Carolinas, LLC  
ABB  
PJM Interconnection, LLC  
PJM Interconnection, LLC  
EFW, Inc  
Madison Gas & Electric Co.  
PJM Interconnection, LLC  
PSEG Energy Resources and Trade LLC

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