

Market Implementation Committee
PJM Conference & Training Center, Audubon, PA
April 15, 2020
9:00 a.m. – 4:00 p.m. EPT

Administration

Ms. Bhavana Keshavamurthy reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirements.

The Committee approved the draft minutes from the Mar. 11, 2020 Market Implementation Committee meeting with **0 objections and 0 abstentions**.

Ms. Melissa Pilon provided an announcement related to the information session scheduled for Apr.21 at the Tech Change Forum. The session will review the Operating Cost and Maintenance Adder (VOM) review process. The meeting is listed as the Tech Change Forum Special Session- Maintenance Adder & Operating Cost Submission Process on the PJM Calendar.

First Readings

2. **Manual 18 revisions related to Price Responsive Demand**

Ms. Terri Esterly reviewed conforming revisions to Manual 18: PJM Capacity Market related to Price Responsive Demand. **The committee will be asked to endorse the manual revisions at the May MIC meeting.**

3. **PMA Credit Requirements for NITS Charges**

Ms. Bridgid Cummings reviewed the Problem Statement and Issue Charge addressing the Peak Market Activity (PMA) credit requirements for Network Integration Transmission Service (NITS) charges.

The committee will be asked to approve the issue charge, which includes use of the Quick Fix process outlined in Section 8.6.1 of Manual 34 at the May MIC meeting.

4. **Five Minute Dispatch and Pricing**

Mr. Tim Horger provided an update on the Five Minute Dispatch and Pricing Issue Charge and impacts to the Fast-Start Pricing order. Mr. Joe Bowring from Monitoring Analytics detailed the IMM's position on the timelines for the implementation of the changes detailed in the proposals. Mr. Adam Keech provided additional background on PJM's position on the need for a short-term and intermediate-term timelines as detailed in the PJM proposal. Stakeholders provided feedback and requested that this issue return as a second read at the May MIC.

[Issue Tracking: Five Minute Dispatch and Pricing](#)

Working Items

5. **Stability Limits in Markets and Operations**

Mr. Keyur Patel and Mr. Joe Ciabattone provided an overview of the generator constraint concept and reviewed the PJM package. Stakeholders provided feedback on the proposal and requested PJM consider alternatives to the package including a combination of the thermal surrogate and generator constraints model.

Stakeholders are requested to provide additional proposals and feedback prior to the May MIC meeting.

[Issue Tracking: Stability Limits in Markets and Operations](#)

Additional Items

6. **ARR/FTR Market Task Force Update**

Mr. Dave Anders provided an update on the current status and next steps for the ARR FTR Market Task Force.

7. **nGEM Project Update**

Mr. Todd Keech provided an update on the nGEM project. As per stakeholder request, Mr. Keech will continue to provide periodic update on the nGEM project at the MIC.

8. **Performance Assessment Interval Report Update**

Ms. Danielle Croop provided an informational update on the Performance Assessment Interval (PAI) settlements report.

9. **Regulation Market Settlement Agreement**

Mr. Eric Hsia provided an overview of PJM's filing in Docket No. ER19-1651-001, in compliance with the Commission's directive in its March 26, 2020 order approving the April 23, 2019 Regulation Market Settlement Agreement.

Informational Section

Tools Security Update

The presentation provides an overview of the PKI based authentication PJM plans to implement for the OASIS/Exschedule tools. Materials are posted as informational only.

Manual 03 Changes

Materials provide an overview of changes made to Manual 3 as part of the periodic review. Materials are posted as informational only.

Manual 03 Attachment E Automatic Sectionalizing Schemes

This document is posted in accordance with requirements stated in Manual 3, Section 5. Materials are posted as informational only.

Interregional Coordination Update

Materials are posted as informational only.

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](#).

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

May 13, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
June 3, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
July 8, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
August 5, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
September 2, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx

Author: Bhavana Keshavamurthy

Webex Meeting Attendees

Names	Company Name	Sector
Morelli, Lisa (Chair)	PJM Interconnection, LLC	Not Applicable
Keshavamurthy, Bhavana (Secretary)	PJM Interconnection, LLC	Not Applicable
Abdur-Rahman, Muhsin	ABB	Not Applicable
Abramowitz, Jeremy	FERC	Not Applicable
Anders, David	PJM Interconnection, LLC	Not Applicable
Baizman, Aaron	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Benckek, Jim	American Transmission Systems, Inc.	Transmission Owner
Bernstein, Matthew	PJM Interconnection, LLC	Not Applicable
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Branch, John	NAES	Not Applicable
Bresler, Stu	PJM Interconnection, LLC	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Budney, Dave	PJM Interconnection, LLC	Not Applicable
Callaghan, Chris	PJM Interconnection, LLC	Not Applicable
Campbell, Bruce	EnergyConnect, Inc.	Other Supplier
Canchi, Devendra	Monitoring Analytics, LLC	Not Applicable
Canter, David	Appalachian Power Company	Transmission Owner
Carmean, Greg	OPSI	Not Applicable
Carrier, Ron	Direct Energy Business, LLC	Other Supplier
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable

Chang, Sean
 Chen, Hong
 Chmielewski, Brian
 Christopher, Mahila
 Chu, George
 Ciabattone, Joe
 Cocco, Michael
 Coyne, Suzanne
 Croop, Danielle
 Crystle, Gil
 Cummings, Bridgid
 D'Alessandris, Lou
 D'Antonio, Phil
 Dasher, Brett
 Dailey, Mike
 Davis, Elizabeth
 Davis, Jim
 DeLosa, Joe
 Denby, Brett
 DeVita, Thomas
 DePillo, Ray
 DiIorio, Michelle
 Dillon, Matt
 DiNicola, Laura
 Dixon, Chad
 Dolan, Jim
 Dorko, Keri
 Duensing, Allison
 Dugan, Chuck
 Egan, Amanda
 Ejebe, Gabriel
 Ernst, Andrew
 Esterly, Theresa
 Everngam, Scott
 Fabiano, Janell
 Fan, Zhenyu
 Fazio, Danielle
 Fernandez, Ray
 Filomena, Guy
 Fink, Sari
 Fitch, Neal
 Fitzpatrick, Brian
 Foldare, Kenneth
 Ford, Adrien
 Frogg, Darrell
 Fuess, Christian
 Gagen, Rod
 Gates, Terry
 Garnett, Bryan
 Genuario, Gabrielle

Shell Energy North America (US), LP
 PJM Interconnection, LLC
 PJM Interconnection, LLC
 Ohio Public Utility Commission
 PJM Interconnection, LLC
 PJM Interconnection, LLC
 Old Dominion Electric Cooperative
 PJM Interconnection, LLC
 PJM Interconnection, LLC
 UGI Development Company
 PJM Interconnection, LLC
 FirstEnergy Solutions Corp.
 PJM Interconnection, LLC
 Energy Authority, Inc. (The)
 Northern Virginia Electric Cooperative
 PJM Interconnection, LLC
 Dominion Energy
 NJ Board of Public Utilities
 Northern Virginia Electric Cooperative
 PJM Interconnection, LLC
 PSEG Energy Resources and Trade LLC
 PSEG Energy Resources and Trade LLC
 UGI Development Company
 FirstEnergy Solutions Corp.
 Customized Energy Solutions. Ltd
 PJM Interconnection, LLC
 Monitoring Analytics, LLC
 Saracen Energy
 East Kentucky Power Cooperative, Inc.
 PJM Interconnection, LLC
 OATI
 Archer Energy
 PJM Interconnection, LLC
 Blue Horse Shoe Energy
 PJM Interconnection, LLC
 PJM Interconnection, LLC
 PJM Interconnection, LLC
 Engelhart CTP (US) LLC
 PJM Interconnection, LLC
 Customized Energy Solutions, Ltd.
 American Wind Energy Management Corporation
 NRG Power Marketing LLC
 PJM Interconnection, LLC
 Tangible
 Old Dominion Electric Cooperative
 PJM Interconnection, LLC
 PBF Power Marketing
 Dominion Energy Generation Marketing, Inc.
 Appalachian Power Company
 Duke Energy
 PJM Interconnection, LLC

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

Gilani, Rehan
 Gorman, Kevin
 Greening, Michele
 Greiner, Gary
 Guntle, Vince
 Haque, Asim
 Hanser, Erik
 Hastings, David
 Hauske, Thomas
 Heidorn, Richard
 Helms, Joe
 Herel, Suzanne
 Hoang, Liem
 Hoatson, Tom
 Holdbrook, Ruth
 Horning, Lynn Marie
 Horstmann, John
 Horton, Dana
 Hsia, Eric
 Huang, Jamie
 Hudis, Gabriella
 Hull, Gerit
 Hurwich, Mark
 Hyzinski, Tom
 Janicki, Diane
 Jens, Tom
 Jett, William
 Jha, Monica
 Johnson, Carl
 Josyula, Siva
 Kazerooni, Hamid
 Keech, Adam
 Keegan, Jack
 Keenan, Mathew
 Kelly, Stephen
 Kilgallen, Kevin
 Kogut, George
 Kozhuharov, Dimitar
 Kuo, David
 LaRocque, Matthew
 Leasure, Jill
 Lejcar, Jamie
 Liang-Nicol, Cecilia
 Libbos, Robin
 Lieberman, Steve
 Lowe, Connie
 Lu, Chenchao
 Luna, Joel
 Mabry, David
 Marcino, Angelo

ConEdison Energy, Inc.
 Highlands Energy Group LLC (The)
 PJM Interconnection, LLC
 PSEG Energy Resources and Trade LLC
 UGI Development Company
 PJM Interconnection, LLC
 Michigan Public Service Commission
 Market Interconnection LLC
 PJM Interconnection, LLC
 RTO Insider
 Rainbow Energy Marketing Corporation
 PJM Interconnection, LLC
 PJM Interconnection, LLC
 LS Power
 Northern Virginia Electric Cooperative
 Customized Energy Solutions, Ltd.*
 Dayton Power & Light Company (The)
 Appalachian Power Company
 PJM Interconnection, LLC
 ConEdison Energy, Inc.
 Jersey Green Energy LLC
 American Municipal Power, Inc.
 Elliott Bay Energy Trading, LLC
 GT Power Group
 Boston Energy Trading & Marketing, LLC
 Blackoak Capital
 Duke Energy Business Services LLC
 PCI
 Customized Energy Solutions, Ltd.*
 Monitoring Analytics, LLC
 Invenergy, LLC
 PJM Interconnection, LLC
 Just Energy
 Elwood Energy
 Brookfield Energy Marketing LP
 Avangrid Renewables, LLC
 New York Power Authority
 Delaware Municipal Electric Corporation, Inc.
 DC Energy LLC
 PJM Interconnection, LLC
 Keystone-Conemaugh Projects, LLC
 Allegheny Electric Cooperative, Inc.
 Monongahela Power Company d/b/a Allegheny Power
 FirstEnergy Solutions Corp.
 American Municipal Power, Inc.
 Dominion Virginia Power
 PJM Interconnection, LLC
 Monitoring Analytics, LLC
 McNees Wallace & Nurick LLC
 PJM Interconnection, LLC

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

Markiewicz, Cindy	FirstEnergy Solutions Corp.	Transmission Owner
McDaniel, John	Baltimore Gas and Electric Company	Transmission Owner
McGlynn, Paul	PJM Interconnection, LLC	Not Applicable
Meadors, Mandy	Duke Energy Ohio, Inc	Transmission Owner
Messina, Emmy	PJM Interconnection, LLC	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Militello, Nicole	PJM Interconnection, LLC	Not Applicable
Monzon, Stephanie	PJM Interconnection, LLC	Not Applicable
Morelli, Lisa	PJM Interconnection, LLC	Not Applicable
Neubrandner, Kerry	DC Energy	Other Supplier
Nix, Emma	Gable Associates	Not Applicable
Olaleye, Michael	PJM Interconnection, LLC	Not Applicable
Ondayko, Brock	Appalachian Power Company	Transmission Owner
Pakela, Gregory	DTE Energy Trading, Inc.	Other Supplier
Patel, Keyurbhai	PJM Interconnection, LLC	Not Applicable
Pelletier, Eveline	Hydro-Quebec	Not Applicable
Peoples, John	Duquesne Light Company	Transmission Owner
Philips, Darlene	PJM Interconnection, LLC	Not Applicable
Pilong, Chris	PJM Interconnection, LLC	Not Applicable
Pilong, Melissa	PJM Interconnection, LLC	Not Applicable
Poulos, Greg	CAPS	Not Applicable
Price, Ruth	Division of the Public Advocate of the State of Delaware	End User Customer
Rajan , Abhijit	Dominion Resources	Not Applicable
Rayhorn, Carolyn	Dominion Virginia Power	Not Applicable
Reeping, Bob	Ohio Edison Company	Transmission Owner
Robinson, Becky	Vistra Energy	Not Applicable
Rohrbach, John	ACES Power	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scheidecker, Paul	PJM Interconnection, LLC	Not Applicable
Schmitt, Jeff	PJM Interconnection, LLC	Not Applicable
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
Sillin, John	The Federal Energy Regulatory Commission	Not Applicable
Sotkiewicz, Paul	E-Cubed Policy Associates LLC	Not Applicable
Squibb, Bill	Ohio Valley Electric Corporation	Generation Owner
Sterling, John	First Solar, Inc	Not Applicable
Stern, Alex	PSEG Energy Resources and Trade LLC	Transmission Owner
Stone, Andy	PJM Interconnection, LLC	Not Applicable
Sturgeon, John	Duke Energy Carolinas, LLC	Other Supplier
Swalwell, Brad	Tangent Energy	Other Supplier
Sweeney, Rory	GT Power Group	Not Applicable
Tangirala, Subha	ABB	Not Applicable
Thompson, Matthew	XO Energy MA	Other Supplier
Tibbetts, Maeve	Pierce Atwood	Not Applicable
Toomey, Megan	Talen Energy Marketing, LLC	Generation Owner
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Tyler, Catherine	Monitoring Analytics, LLC	Not Applicable
VanAmburg, Cari	Recurrent Energy	Generation Owner
Wadsworth, Joseph	Vitol Inc.	Other Supplier



Minutes

Walter, Laura
Ward, Michael
Warshel, Kim
Whitehead, Jeffrey
Yoder, Michael
Zemanek, Kevin

PJM Interconnection, LLC
PJM Interconnection, LLC
PJM Interconnection, LLC
GT Power Group
RTO Insider
Buckeye Power, Inc.

Not Applicable
Not Applicable
Not Applicable
Not Applicable
Not Applicable
Electric Distributor