

Market Implementation Committee (MIC)

WebEx Only

April 7, 2021

9:00 a.m. – 2:30 p.m. EPT

Administration

Nick DiSciullo reviewed the Antitrust, Code of Conduct, Public Meetings/Media Participation and the WebEx Participant Identification Requirements.

The Committee approved the draft minutes from the March 10, 2021 Market Implementation Committee meeting with **0 objections and 0 abstentions**.

Nick DiSciullo provided an update on the MIC Work Plan, which included pending issue charges.

Dave Anders provided an update on the voting protocols for Board elections at the May Members Committee meeting.

First Readings

2. **Reactive Supply and Voltage Control Compensation**

- a) Jim Davis, Dominion Energy, provided a second first read of the Problem Statement and Issue Charge addressing Compensation for Reactive Supply and Voltage Control service.
- b) Joe Bowring, IMM, provided a first read of an alternate Problem Statement and Issue Charge addressing Compensation for Reactive Supply and Voltage Control service.

The committee will be asked to vote on the Dominion Energy and IMM Issue Charges at its next meeting.

3. **Manual 11, Manual 18 and Manual 28: Fast-Start Pricing Changes**

Nicole Militello and Rebecca Stadelmeyer provided a first read of updates to Manual 11: Energy & Ancillary Services Market Operations, Manual 18: PJM Capacity Market and Manual 28: Operating Agreement Accounting. The committee will be asked to endorse these revisions at its next meeting.

4. **Regulation for Virtual Combined Cycles**

Becky Robinson, Vistra, provided a first read of the Problem Statement and Issue Charge addressing Regulation for Virtual Combined Cycles. The committee will be asked to approve the issue charge at its next meeting.

Working Items

5. **RPM Capacity Transfer Rights**

- a) Jeff Bastian provided education on the status quo approach to the determination and allocation of CTRs.

- b) Kevin Zemanek, Buckeye Power, provided education on the RPM Capacity Transfer Rights Issue Charge.
 - c) Joe Bowring, IMM, provided education on RPM Capacity Transfer Rights.
- The committee will begin Issue Identification and creating Design Components as part of the Consensus Based Issue Resolution (CBIR) process for this issue during its next meeting.

[Issue Tracking: Capacity Transfer Rights in RPM](#)

6. **Market Suspension**

- a) Stefan Starkov provided an update on the Market Suspension scenario table and an overview of PJM's proposed solution options.
- b) Lisa Morelli facilitated a discussion on proposed solution options and began the process of developing packages on the Market Suspension matrix as part of the Consensus Based Issue Resolution (CBIR) process. The PJM package was presented and David Hicks, Perast Fund LP, proposed an alternate package.

[Issue Tracking: Rules Related to Market Suspension](#)

Additional Items

7. **Real Time Value (RTV) Markets Gateway Process Update**

Tong Zhao provided a review of the recent change to the RTV submittal process in Markets Gateway following the change to the RTV market rules.

8. **Synchronized Reserve Event Actions and Expectations**

Michael Zhang provided an update on the newly formed Synchronized Reserve Deployment Task Force (SRDTF).

9. **Markets Certification Exam Update Survey**

Troy Cawley provided details on the Markets Certification Exam Update Survey.

10. **nGEM Project Update**

Ray Fernandez provided an update on the Next Generation Energy Market (nGEM) Software replacement project.

11. **Emerging Technologies Survey**

Scott Baker provided an informational announcement about a forthcoming stakeholder survey related to emerging technologies.

12. **Freeze Date FERC Filing**

Joe Rushing provided an update on the Freeze Date, FFE Solution FERC filing.

13. **Posting Timeline Trial**

Michele Greening reviewed information related to a proposed posting timeline trial period.

14. Market Seller Offer Cap

Adam Keech discussed next steps regarding the March 18, 2021 FERC Order on the Market Seller Offer Cap complaints.

Informational Section

Interregional Coordination Update

Materials are posted as informational only.

IROL-CIP Cost Recovery

Darrell Frogg will be providing a second read on Interconnection Reliability Operating Limits-Critical Infrastructure Protection (IROL-CIP) Cost Recovery at the Operating Committee tomorrow. Problem Statement and Issue Charge will be up for endorsement then.

2021/2022 Operating Reserve Demand Curves - Effective 5/1/2022 to 5/31/2022

Materials are posted as informational only.

Shortage Pricing – Price Formation Explanation

Materials are posted as informational only.

Effective Load Carrying Capability (ELCC): Conforming Manual Language Changes

Materials are posted as informational only.

Manual 03 Updates

Updates to PJM Manual 03, Revision 59 – Transmission Operations are posted as informational only with meeting materials.

PJM Manual 03 Attachment E Automatic Sectionalizing Schemes

The PJM Manual 03 Attachment E Automatic Sectionalizing Schemes Pending Approval and Recent Changes document has been posted as an Information Only item to the April meeting website.

ARR FTR Market Task Force (AFMTF)

Meeting materials are posted to the [AFMTF website](#).

Cost Development Subcommittee (CDS)

Meeting materials are posted to the [CDS website](#).

Demand Response Subcommittee (DRS)

Meeting materials are posted to the [DRS website](#).

DER & Inverter-based Resources Subcommittee (DIRS)

Meeting materials are posted to the [DIRS website](#).

Market Settlements Subcommittee (MSS)

Meeting materials are posted to the [MSS website](#).

Report on Market Operations

The Report on Market Operations will be reviewed during the [MC Webinar](#).

Future Meeting Dates

May 13, 2021	9:00 a.m.	WebEx
June 9, 2021	9:00 a.m.	WebEx
July 14, 2021	9:00 a.m.	TBD
August 11, 2021	9:00 a.m.	TBD
September 9, 2021	9:00 a.m.	TBD
October 6, 2021	9:00 a.m.	TBD
November 3, 2021	9:00 a.m.	TBD
December 1, 2021	9:00 a.m.	TBD

Author: Nick DiSciullo

WebEx Meeting Attendees

Names	Company Name	Sector
Morelli, Lisa (Chair)	PJM Interconnection, LLC	Not Applicable
DiSciullo, Nicholas (Secretary)	PJM Interconnection, LLC	Not Applicable
Aguilar, Fabiano Silveira	Strom Power, LLC	Other Supplier
Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Anders, David	PJM Interconnection, LLC	Not Applicable
Anderson, Bob	Tenaska Power Services Co.	Generation Owner
Baizman, Aaron	PJM Interconnection, LLC	Not Applicable
Baker, Laura	Stone, Mattheis, Xenopoulos & Brew, PC	Not Applicable
Baker, Scott	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Bastian, Jeff	PJM Interconnection, LLC	Not Applicable
Beban, Madalyn	PJM Interconnection, LLC	Not Applicable
Benchek, Jim	American Transmission Systems, Inc.	Transmission Owner
Berend, Seth	Calpine Energy Services, L.P.	Generation Owner
Binder, Gerry	SESCO Enterprises LLC	Other Supplier
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Bowen, Brandon	Indiana Utility Regulatory Commission	Not Applicable
Bowring, Joseph	Monitoring Analytics, LLC	Not Applicable
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Breidenbaugh, Aaron	Rodan Energy Solutions (USA) Inc.	Other Supplier
Bresler, Stu	PJM Interconnection, LLC	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Generation Owner
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Bryson, Michael (Mike)	PJM Interconnection, LLC	Not Applicable
Canter, David	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Cao, Roger	PJM Interconnection, LLC	Not Applicable
Carmean, Gregory	OPSI	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Cassidy, Jon	Archer Contingent Energy Risk LLC	Not Applicable

Caven, Augustine	PJM Interconnection, LLC	Not Applicable
Cawley, Troy	PJM Interconnection, LLC	Not Applicable
Chang, Sean	Shell Energy North America (US), L.P.	Other Supplier
Chen, Hong	PJM Interconnection, LLC	Not Applicable
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Chu, George	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joseph	PJM Interconnection, LLC	Not Applicable
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor
Coyle, Billy	Dominion Virginia Power	Not Applicable
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
Crystle, Gil	UGI Development Company	Generation Owner
D'Alessandris, Lou	FirstEnergy Corporation	Transmission Owner
D'antonio, Phil	PJM Interconnection, LLC	Not Applicable
Davis, Elizabeth (Becky)	PJM Interconnection, LLC	Not Applicable
Davis, James (Jim)	Dominion Energy Generation Marketing, Inc.	Generation Owner
Davis, Mike	Northern Virginia Electric Cooperative	Electric Distributor
DeLosa, Joseph	DE Public Service Commission	Not Applicable
Depillo, Raymond	PSEG Energy Resources & Trade LLC	Other Supplier
DeVita, Thomas	PJM Interconnection, LLC	Not Applicable
Di Iorio, Michelle	PSEG Energy Resources & Trade LLC	Other Supplier
Dillon, Matthew	UGI Development Company	Generation Owner
DiNicola, Laura	FirstEnergy Corporation	Transmission Owner
Dolan, James	PJM Interconnection, LLC	Not Applicable
Domian, Christin	Duquesne Light Company	Transmission Owner
Downs, Jere	PJM Interconnection, LLC	Not Applicable
Drivas, Cristina	Whitetail Solar 1, LLC	Generation Owner
Drom, Richard	Eckert Seamans	Not Applicable
Dropkin, Ilyana	PJM Interconnection, LLC	Not Applicable
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Egan, Amanda	PJM Interconnection, LLC	Not Applicable
Elkins, Rachel	FirstEnergy Corporation	Transmission Owner
Everngam, Scott	The Federal Energy Regulatory Commission	Not Applicable
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Filomena, Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Fitzpatrick, Brian	PJM Interconnection, LLC	Not Applicable
Foladare, Kenneth	Tangibl LLC	Not Applicable
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Frogg, Darrell	PJM Interconnection, LLC	Not Applicable
Fuess, Christian	PBF Power Marketing, LLC	Generation Owner
Gahimer, Michael	IN Office of Utility Consumer Counselor	End-Use Customer
Gates, Terry	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Gebolys, Debbie	Public Utilities Commission of Ohio (The)	Not Applicable
Genuario, Gabrielle	PJM Interconnection, LLC	Not Applicable
Gibbons, Jaret	ARIPPA	Not Applicable
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Gluck, Jim	PJM Interconnection, LLC	Not Applicable

Graham, Sophie	Adapt2 Solutions	None
Grant, Melanie	Allegheny Power	Not Applicable
Greening, Michele	PJM Interconnection, LLC	Not Applicable
Greiner, Gary	PSEG Energy Resources & Trade LLC	Other Supplier
Grooms, Craig	Buckeye Power, Inc.	Electric Distributor
Guntle, Vince	American PowerNet Management	End-Use Customer
Haas, Howard	Monitoring Analytics, LLC	Not Applicable
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Harris, Makenna	Adapt2 Solutions	None
Hastings, David	Market Interconnection Consulting Services (MICS)	Not Applicable
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
Heinle, Frederick	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Heisey, Bradley	Wolf Hills Energy, LLC	Generation Owner
Herel, Suzanne	PJM Interconnection, LLC	Not Applicable
Hicks, Dave	Perast Fund LP	Other Supplier
Hoatson, Tom	Riverside Generating, LLC	Generation Owner
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Holdbrook, Ruth	Northern Virginia Electric Cooperative	Electric Distributor
Horger, Tim	PJM Interconnection, LLC	Not Applicable
Horning, Lynn Marie	Customized Energy Solutions, Ltd.*	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hudis, Gabriella	Jersey Green Energy LLC	Other Supplier
Hull, Gerit	Jennings, Strouss & Salmon, P.L.C.	Not Applicable
Hyzinski, Tom	GT Power Group	Not Applicable
Iler, Arthur (Art)	Indiana Office of Utility Consumer Counsel	End-Use Customer
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Other Supplier
Jardot, Gina	Essential Power Rock Springs, LLC	Generation Owner
Jett, Jason	BYHM Capital LLC	Not Applicable
Jewel, Kelsi	Dominion Virginia Power	Not Applicable
Jha, Monica	PCI	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Johnston, David	Indiana Utility Regulatory Commission	Not Applicable
Kauffman, Brian	Enel X North America, Inc.	Other Supplier
Keech, Adam	PJM Interconnection, LLC	Not Applicable
Keegan, John (Jack)	PJM Interconnection, LLC	Not Applicable
Kelly, Stephen	Brookfield Energy Marketing LP	Other Supplier
Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Kilgallen, Kevin	Avangrid Renewables LLC	Generation Owner
Kimmel, David	PJM Interconnection, LLC	Not Applicable
Kogut, George	New York Power Authority	Other Supplier
Kozhuharov, Dimitar	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
LaRocque, Matthew	PJM Interconnection, LLC	Not Applicable
Larry, Steven	Tenaska Power Services Co.	Generation Owner
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Li, Kanning	PJM Interconnection, LLC	Not Applicable
Libbos, Robin	FirstEnergy Corporation	Transmission Owner
Lieberman, Steven	American Municipal Power, Inc.	Electric Distributor
Lin, Jeremy	PJM Interconnection, LLC	Not Applicable
Litchfield, Matthew	CPV Shore, LLC	Generation Owner

Long, Glenn	PJM Interconnection, LLC	Not Applicable
Lowenthal-Savy, Danielle	Monitoring Analytics, LLC	Not Applicable
Lu, Chenchao	PJM Interconnection, LLC	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Marcino, Angelo	PJM Interconnection, LLC	Not Applicable
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Martin, Valerie	The Federal Energy Regulatory Commission	Not Applicable
Matuszak, Alex	UGI Energy Services, LLC	Other Supplier
McGlynn, Paul	PJM Interconnection, LLC	Not Applicable
McLavery, Megan	PJM Interconnection, LLC	Not Applicable
Mendelsohn, Mark	Noble Americas Gas & Power Corp.	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Militello, Nicole	PJM Interconnection, LLC	Not Applicable
Mok, Alan	Duke Energy Kentucky, Inc.	Transmission Owner
Mooney, Jeff	FirstEnergy Corporation	Transmission Owner
Murphy, Shaun	PJM Interconnection, LLC	Not Applicable
Nix, Emma	Gable and Associates	Not Applicable
Okenfuss, James	Savion, LLC	None
Olaleye, Michael	PJM Interconnection, LLC	Not Applicable
Olinger, Robert	Keystone Projects	Not Applicable
Ondayko, Brock	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Parker, Amanda	Pennsylvania Electric Company	Electric Distributor
Patel, Anjali	Office of the Peoples Counsel for the District of Columbia	End-Use Customer
Patel, Keyur	PJM Interconnection, LLC	Not Applicable
Pawar, Asawari	First Solar, Inc.	Not Applicable
Pelletier, Eveline	Hydro-Quebec	Not Applicable
Perera, Asanga	PJM Interconnection, LLC	Not Applicable
Phillips, Darlene	PJM Interconnection, LLC	Not Applicable
Pizzutelli, Ashley	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Poulos, Greg	CAPS	Not Applicable
Pradhan, Salil	Whitetail Solar 1, LLC	Generation Owner
Pratt, Nicholas	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Price, Ruth	Division of the Public Advocate of the State of Delaware	End-Use Customer
Procnuiar, Jason	Dayton Power & Light Company (The)	Transmission Owner
Purdie, Michael	Dominion Virginia Power	Not Applicable
Rahimi, Farrokh	Open Access Technology International, Inc.	Not Applicable
Reams, Will	Allegheny Electric Cooperative, Inc.	Electric Distributor
Redwine, Arlo	The Federal Energy Regulatory Commission	Not Applicable
Robinson, Becky	Vista Energy Marketing, L.P.	Other Supplier
Robinson, Evelyn	PJM Interconnection, LLC	Not Applicable
Rodriguez, Tomas	OPSI	Not Applicable
Rohrbach, John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rooney, Alexa	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Ruck, Andrew	PSEG Energy Resources & Trade LLC	Other Supplier
Rushing, Joseph	PJM Interconnection, LLC	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Schisler, Ken	Enel X North America, Inc.	Other Supplier
Schum, Alice	Illinois Municipal Electric Agency	Electric Distributor

Schuyler, Ken	PJM Interconnection, LLC	Not Applicable
Schweizer, David	PJM Interconnection, LLC	Not Applicable
Shanker, Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Skumanich, William (Bill)	RTR Energy Solutions	Not Applicable
Smith, Kara	Buckeye Power, Inc.	Electric Distributor
Sorrels, James	AEP Appalachian Transmission Company, Inc	Transmission Owner
Sotkiewicz, Paul	E-Cubed Policy Associates	Not Applicable
Souder, Michelle	PJM Interconnection, LLC	Not Applicable
Stadlmeyer, Rebecca	PJM Interconnection, LLC	Not Applicable
Starkov, Stefan	PJM Interconnection, LLC	Not Applicable
Stern, Alexander (Alex)	Public Service Electric & Gas Company	Transmission Owner
Stewart, Travis	Gable and Associates	Not Applicable
Stone, Andy	PJM Interconnection, LLC	Not Applicable
Strom, Ryan	Buckeye Power, Inc.	Electric Distributor
Stupar, Rob	Invenergy, LLC	Generation Owner
Sun, Haibin	Constellation Energy Services, Inc.	Other Supplier
Svenson, Heather	Public Service Electric & Gas Company	Transmission Owner
Swalwell, Brad	Tangent Energy Solutions, Inc.	Other Supplier
Sweeney, Rory	GT Power Group	Not Applicable
Terranova, Chris	PJM Interconnection, LLC	Not Applicable
Thorsen, Michael	Buckeye Power, Inc.	Electric Distributor
Tibbetts, Maeve	Pierce Atwood	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Tyler, Catherine	Monitoring Analytics, LLC	Not Applicable
Ward, James	Other	Not Applicable
Watkins, Erik	PJM Interconnection, LLC	Not Applicable
Wehnes, Kathleen	Maryland Public Service Commission	Not Applicable
Whitehead, Jeffrey	GT Power Group	Not Applicable
Widom, Stuart	PJM Interconnection, LLC	Not Applicable
Wisersky, Megan	Madison Gas & Electric Company	Other Supplier
Wray, Gizelle	Solar Energy Industries Association	Not Applicable
Yoder, Michael	RTO Insider	Not Applicable
Zemanek, Kevin	Buckeye Power, Inc.	Electric Distributor
Zhang, Michael (Mike)	PJM Interconnection, LLC	Not Applicable
Zhao, Tong	PJM Interconnection, LLC	Not Applicable