

Markets and Reliability Committee
The Chase Center on the Riverfront, Wilmington, DE
December 17, 2015
9:00 a.m. – 12:50 p.m. EPT

Administration

Mr. Kormos welcomed stakeholders to the meeting and Mr. Anders provided the Anti-trust and Code of Conduct announcements.

Mr. Vince Duane provided an announcement related to recently announced proposed settlement stipulations filed by First Energy and AEP with the Public Utilities Commission of Ohio. The text of his announcement is expected to be posted on InsideLines.PJM.com.

Mr. Stu Bresler provided an announcement that PJM intends to make a filing at FERC notifying FERC that PJM plans to proceed as of June 1, 2016 on the basis of its compliance filing in the Capacity Performance (CP) docket, and seeking FERC action on PJM's compliance filing and rehearing requests specific to operations rules related to CP. The anticipated filing seeks to provide market participant certainty regarding PJM's implementation of FERC approved CP rules, and is expected to be made shortly.

Endorsements/Approvals

1. Draft Minutes

Minutes of the November 19, 2015 and December 9, 2015 meetings of the Markets and Reliability Committee (MRC) meeting were **approved** by acclamation with no objections or abstentions.

2. PJM Manuals

- A. Mr. David Schweizer reviewed proposed revisions to Manual 10: Pre-Scheduling Operations regarding generator outage reporting.
- B. Mr. Jeff Schmitt presented proposed revisions to Manual 11: Energy & Ancillary Services Market and Manual 28: Operating Agreement Accounting related to the previously endorsed revisions to the Energy Market Offer Cap.
- C. Mr. David Schweizer presented proposed revisions to Manual 14D: Generator Operational Requirements to expand the communication model to include Joint Operating resources, and annual review updates including updates to reactive testing requirements.
- D. Mr. David Schweizer reviewed proposed revisions to Manual 39: Nuclear Plant Interface Coordination generated by its periodic review.

Following discussion, the proposed revisions in items 2.A through 2.D were **endorsed** by acclamation with one objection to item 2.B, one objection to item 2.C and one abstention on item 2.B.

3. Load Forecasting Enhancements

Mr. Tom Falin presented proposed revisions to Manual 19: Load Forecasting and Analysis related to

enhancements to the load forecast model concerning solar forecast adjustments. Following discussion the proposed revisions were **endorsed** by acclamation with eight objections and five abstentions.

4. Load Forecast Update

Mr. Jeff Bastian reviewed proposed revisions to Manual 18: PJM Capacity Market and Manual 18B: Energy Efficiency Measurement & Verification to accommodate EE Resources in the PJM Capacity Market when EE is reflected in the Peak Load Forecast. Following discussion the proposed revisions were **endorsed** by acclamation with 12 objections and one abstention.

5. Underperformance Risk Management in RPM/CP

Mr. Bob O'Connell, representing PPGI Fund A/B Development, LLC, presented a proposed Problem Statement and Issue Charge related to Underperformance Risk Management in RPM/CP. Mr. O'Connell noted a friendly amendment that had been posted which adds two Key Work Activities. Mr. O'Connell moved and Mr. Steve Lieberman seconded a motion that the amended proposed Statement and Issue Charge be approved. Following discussion the committee **approved** the amended proposed Problem Statement and Issue Charge in a sector-weighted vote with 3.98 in favor.

6. Demand Response Non-Summer Capacity Compliance Clarification

Mr. Pete Langbein presented draft Tariff and manual revisions to clarify the CBL process for new Capacity Performance non-summer capacity compliance for Demand Response. Following discussion the proposed revisions were **endorsed** by acclamation with no objections or abstentions.

First Readings

7. Virtual Transactions

Mr. Adam Keech presented an updated proposed problem statement and issue charge regarding nodes at which virtual transactions may be made. The Committee will be asked to approve the problem statement and issue charge at its next meeting.

8. Distributed Battery Storage in PJM Markets

Mr. Drew Adams, A.F. Mensah, Inc., presented an updated proposed problem statement and issue charge regarding Distributed Battery Storage in PJM Markets. The Committee will be asked to approve the problem statement at its next meeting.

9. Unit Commitment

Mr. Barry Trayers, Citigroup Energy, Inc., presented a proposed problem statement and issue charge regarding Unit Commitment. The Committee will be asked to approve the problem statement and issue charge at its next meeting.

10. Capacity Performance Cost Allocation

Mr. Stu Bresler presented a proposed problem statement and issue charge regarding cost allocation methodology to include winter peaks. The Committee will be asked to approve the problem statement and issue charge at its next meeting.

11. Summer-Only Demand Response

Mr. Stu Bresler presented a proposed problem statement and issue charge regarding implementation of Summer-Only Demand Response. The Committee will be asked to approve the problem statement and issue charge at its next meeting.

12. Voltage Threshold

Ms. Sue Glatz presented draft Operating Agreement revisions regarding voltage threshold and administrative changes. The Committee will be asked to endorse these proposed revisions at its next meeting.

13. Long Term Firm Transmission Service Task Force

Mr. Aaron Berner presented the proposed solution package to modify Long Term Firm Transmission Service methodologies. The Committee will be asked to endorse these proposed revisions at its next meeting.

14. PAR Task Force

Mr. Aaron Berner presented proposed Manual 14 series updates regarding PAR withdrawal and inject rights. The Committee will be asked to endorse these proposed revisions at its next meeting.

15. Governing Documents Enhancement & Clarification Subcommittee (GDECS)

Ms. Janell Fabiano presented proposed Tariff, Operating Agreement and Reliability Assurance Agreement revisions related to Alternative Dispute Resolution (ADR) and Markets Governing Documents Clean-up developed by the GDECS. The Committee will be asked to endorse these proposed revisions at its next meeting.

16. PJM Manuals

- A. Mr. Ray Fernandez presented proposed revisions to Manual 27: Open Access Transmission Tariff Accounting for the Market Consistency – Daily Zonal Scaling Factors issue that was worked through the Markets Settlements Subcommittee. The Committee will be asked to endorse these proposed revisions at its next meeting.
- B. Mr. Liem Hoang presented proposed revisions to Manual 38: Operations Planning identified through the required periodic review. The Committee will be asked to endorse these proposed revisions at its next meeting.
- C. Mr. Glen Boyle presented proposed revisions to Manual 40: Training and Certification Requirements associated with the resolution of the Training and Certification Non-Compliance

issue. The Committee will be asked to endorse these proposed revisions at its next meeting.

Informational Items

17. AD14-14 – Price Formation

Mr. Adam Keech provided information on PJM's planned response to the FERC's request for comment in the Price Formation docket.

18. Markets Gateway and Single Sign-On

An update on implementation of Markets Gateway and Single Sign On was posted with the materials for the meeting. No formal oral presentation was provided.

Future Agenda Items

No new future agenda items were identified.

Future Meeting Dates

January 28, 2016	9:00 a.m.	Wilmington, DE
February 25, 2016	9:00 a.m.	Wilmington, DE
March 31, 2016	9:00 a.m.	Wilmington, DE
April 28, 2016	9:00 a.m.	Wilmington, DE
May 26, 2016	9:00 a.m.	Wilmington, DE
June 30, 2016	9:00 a.m.	Wilmington, DE
July 28, 2016	9:00 a.m.	Wilmington, DE
August 25, 2016	9:00 a.m.	Wilmington, DE
September 29, 2016	9:00 a.m.	Wilmington, DE
October 27, 2016	9:00 a.m.	Wilmington, DE
November 17, 2016	9:00 a.m.	Wilmington, DE
December 22, 2016	9:00 a.m.	Wilmington, DE

In Attendance (Chair/Secretary):

Kormos, Michael J.	PJM Interconnection, LLC	Not Applicable
Anders, Dave	PJM Interconnection, LLC	Not Applicable

In Attendance (Voting Participants):

Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Benchek, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Birnel, William	Westar Energy, Inc.	Other Supplier
Borgatti, Michael	Rep'g Covanta Energy Group, Inc.	Generation Owner
Borgatti, Michael	Rep'g Northampton Generating Company L.P.	Generation Owner
Borgatti, Michael	Rep'g RC Cape May Holdings, LLC	Generation Owner
Borgatti, Michael	Rep'g Jersey Green Energy LLC	Other Supplier
Borgatti, Michael	Rep'g NextEra Energy Power Marketing, LLC	Generation Owner
Borgatti, Michael	Rep'g Longview Power, LLC	Generation Owner

Borgatti, Michael	Rep'g York County Solid Waste and Refuse Authority	Generation Owner
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Bruce, Susan	Rep'g MeadWestvaco Corporation	End User Customer
Bruce, Susan	Rep'g Procter & Gamble Paper Products Company (The)	End User Customer
Bruce, Susan	Rep'g Gerdau Ameristeel Energy, Inc.	Other Supplier
Bruce, Susan	Rep'g Air Products & Chemicals, Inc.	End User Customer
Bruce, Susan	Rep'g Wellsboro Electric Company (pre-2008)	Electric Distributor
Bruce, Susan	Rep'g Trustees of the U of PA, dba University of Pennsylvania	End User Customer
Bruce, Susan	Rep'g Industrial Energy Users-Ohio	Other Supplier
Bruce, Susan	Rep'g Kimberly-Clark Corporation	Generation Owner
Bruce, Susan	Rep'g Praxair, Inc.	End User Customer
Bruce, Susan	Rep'g Letterkenny Industrial Development Authority	Electric Distributor
Bruce, Susan	Rep'g Lehigh Portland Cement Company	End User Customer
Bruce, Susan	Rep'g Air Liquide Industrial U.S., LP	End User Customer
Bruce, Susan	Rep'g Linde LLC	End User Customer
Campbell, Bruce	Rep'g EnergyConnect, Inc.	Other Supplier
Campbell, Bruce	Rep'g Mid-Atlantic Power Partners	Other Supplier
Cox, Jason	Dynegy Marketing & Trade, LLC	Generation Owner
Czigler, Frank	Public Service Electric & Gas Company	Transmission Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ellison, Alan	Grays Ferry Cogeneration Partnership	Generation Owner
Foladare, Kenneth	IMG Midstream LLC	Generation Owner
Fondacci, Luis	North Carolina Electric Membership Corporation	Electric Distributor
Fuess, Jay	Rep'g Diamond State Generation Partners, LLC	Generation Owner
Fuess, Jay	Rep'g PBF Power Marketing LLC	Generation Owner
Fuess, Jay	Rep'g Energy Consulting Services LLC	Other Supplier
Fuess, Jay	Rep'g Ictec.com, Inc.	Other Supplier
Fuess, Jay	Rep'g Kuehne Chemical Company, Inc.	Other Supplier
Fuess, Jay	Rep'g Church Hill Solar Farm, LLC	Generation Owner
Garnett, Bryan	Duke Energy Business Services LLC	Transmission Owner
Godson, Gloria	Potomac Electric Power Company	Electric Distributor
Greening, Michele	Talen Energy Marketing, LLC	Generation Owner
Griffiths, Dan	Rep'g New Jersey Div. of the Ratepayer Advocate	End User Customer
Griffiths, Dan	Rep'g Pennsylvania Office of Consumer Advocate	End User Customer
Griffiths, Dan	Rep'g West Virginia Consumer Advocate Division	End User Customer
Griffiths, Dan	Rep'g Maryland Office of Peoples Counsel	End User Customer
Griffiths, Dan	Rep'g Illinois Citizens Utility Board	End User Customer

Griffiths, Dan	Rep'g Division of the Public Advocate of State of Delaware	End User Customer
Griffiths, Dan	Rep'g Office of the Ohio Consumers' Counsel	End User Customer
Griffiths, Dan	Rep'g Indiana Office of Utility Consumer Counsel	End User Customer
Griffiths, Dan	Rep'g Office of the Attorney General, Kentucky	End User Customer
Griffiths, Dan	Rep'g Ofc... People's Counsel ... District of Columbia	End User Customer
Guerry, Katie	EnerNOC, Inc.	Other Supplier
Hastings, David	Rep'g Tenaska Power Services Co.	Generation Owner
Hastings, David	Rep'g Twin Cities Power, LLC	Other Supplier
Hastings, David	Rep'g SESCO Enterprises LLC	Other Supplier
Hastings, David	Rep'g Mercuria Energy America, Inc.	Other Supplier
Hastings, David	Rep'g Saracen Energy East LP	Other Supplier
Hastings, David	Rep'g Town Square Energy East, LLC	Other Supplier
Hastings, David	Rep'g Northstar Trading Ltd.	Other Supplier
Hastings, David	Rep'g Solios Power Mid-Atlantic Trading LLC	Other Supplier
Hoatson, Tom	West Deptford Energy, LLC	Generation Owner
Horstmann, John	Dayton Power and Light Company (The)	Transmission Owner
Horton, Dana	Appalachian Power Company (AEP Generation)	Transmission Owner
Hurwich, Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Jablonski, James	Rep'g Borough of South River, New Jersey	Electric Distributor
Jablonski, James	Rep'g Borough of Milltown	Electric Distributor
Jablonski, James	Rep'g Borough of Park Ridge, New Jersey	Electric Distributor
Jablonski, James	Rep'g Borough of Seaside Heights, New Jersey	Electric Distributor
Jablonski, James	Rep'g Vineland Municipal Electric Utility	Electric Distributor
Jablonski, James	Rep'g Borough of Pemberton	Electric Distributor
Jablonski, James	Rep'g Borough of Butler, Butler Electric Division	Electric Distributor
Jablonski, James	Rep'g Borough of Madison, New Jersey	Electric Distributor
Jablonski, James	Rep'g Borough of Lavallette, New Jersey	Electric Distributor
Johnson, Carl	Rep'g Illinois Municipal Electric Agency	Electric Distributor
Johnson, Carl	Rep'g Thurmont Municipal Light Company	Electric Distributor
Johnson, Carl	Rep'g Indiana Municipal Power Agency	Generation Owner
Johnson, Carl	Rep'g Energy Cooperative Association of PA	Other Supplier
Johnson, Carl	Rep'g Galt Power Inc.	Other Supplier
Johnson, Carl	Rep'g WPPI Energy	Other Supplier
Johnson, Carl	Rep'g Allegheny Electric Cooperative, Inc.	Electric Distributor
Johnson, Carl	Rep'g Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson, Carl	Rep'g North Carolina Municipal Power Agency # 1	Other Supplier
Johnson, Carl	Rep'g Williamsport, MD (Town of)	Electric Distributor

Johnson, Carl	Rep'g North Carolina Electric Membership Corporation	Electric Distributor
Johnson, Carl	Rep'g City of Dover, Delaware	Electric Distributor
Johnson, Carl	Rep'g Hagerstown Light Department	Electric Distributor
Johnson, Carl	Rep'g Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson, Carl	Rep'g Central Virginia Electric Cooperative	Electric Distributor
Johnson, Carl	Rep'g Easton Utilities Commission	Electric Distributor
Johnson, Carl	Rep'g Old Dominion Electric Cooperative	Electric Distributor
Johnson, Carl	Rep'g Borough of Chambersburg (DTEET)	Electric Distributor
Johnson, Carl	Rep'g American Municipal Power, Inc.	Electric Distributor
Johnson, Carl	Rep'g Mont Alto, PA (Borough of)	Electric Distributor
Johnson, Carl	Rep'g Delaware Municipal Electric Corporation	Electric Distributor
Johnson, Carl	Rep'g Buckeye Power, Inc.	Electric Distributor
Johnson, Carl	Rep'g Madison Gas & Electric Company	Other Supplier
Kelly, Stephen	Brookfield Energy Marketing LP	Other Supplier
Kogut, George	New York Power Authority	Other Supplier
Levine, Jeffrey	GDF SUEZ Energy Marketing NA, Inc.	Other Supplier
Lieberman, Steven	Old Dominion Electric Cooperative	Electric Distributor
Long, Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Melnyk, Markian	Atlantic Grid Operations A, LLC	Other Supplier
Merola, Becky	Noble Americas Gas & Power Corp.	Other Supplier
Moerner, Lisa	Virginia Electric & Power Company	Transmission Owner
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
O'Connell, Robert	PPGI Fund A/B Development, LLC	Generation Owner
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Peoples, John	Duquesne Light Company	Transmission Owner
Prokop, Brenda	ITC Mid-Atlantic Development LLC	Other Supplier
Richardson, Frank (Chip)	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Riding, MQ	Essential Power Rock Springs, LLC	Transmission Owner
Rohrbach, John	Rep'g Southern Maryland Electric Cooperative	Electric Distributor
Rohrbach, John	Rep'g Wabash Valley Power Association, Inc.	Electric Distributor
Rutigliano, Tom	Rep'g Enerwise Global Technologies, Inc.	Other Supplier
Rutigliano, Tom	Rep'g Achieving Equilibrium LLC	Other Supplier
Rutigliano, Tom	Rep'g Demansys Energy, LLC	Other Supplier
Scarp, David	Calpine Energy Services, L.P.	Generation Owner
Scoglietti, Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Seelaus, Timothy	EMC Development Company, Inc.	Other Supplier
Sitaraman, Nicole	Ofc... People's Counsel ... District of Columbia	End User Customer

Skucas, Ruta	Rep'g Red Wolf Energy Trading, LLC	Other Supplier
Skucas, Ruta	Rep'g Apple Group LLC	Other Supplier
Skucas, Ruta	Rep'g Hexis Energy Trading, LLC	Other Supplier
Skucas, Ruta	Rep'g Great Bay Energy I, LLC	Other Supplier
Skucas, Ruta	Rep'g Monterey MA, LLC	Other Supplier
Skucas, Ruta	Rep'g Southard Energy Partners LLC	Other Supplier
Skucas, Ruta	Rep'g Liberty Hill Power LLC	Other Supplier
Skucas, Ruta	Rep'g Yasmin Partners LLC	Other Supplier
Skucas, Ruta	Rep'g Velocity American Energy Master I, LP	Other Supplier
Skucas, Ruta	Rep'g Dufossat Capital I, LLC	Other Supplier
Skucas, Ruta	Rep'g Greene Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g Falcon Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g Solea Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g Property Endeavors, LLC	End User Customer
Skucas, Ruta	Rep'g RJUMR Energy Partners Corp.	Other Supplier
Skucas, Ruta	Rep'g Ames Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g Dyon, LLC	Other Supplier
Skucas, Ruta	Rep'g MET MA, LLC	Other Supplier
Skucas, Ruta	Rep'g Mac Trading, Inc	Other Supplier
Skucas, Ruta	Rep'g Pure Energy, Inc.	Other Supplier
Skucas, Ruta	Rep'g E Minus LLC	Other Supplier
Trayers, Barry	Citigroup Energy, Inc.	Other Supplier
Whitehead, Jeffrey	Direct Energy Business, LLC	Other Supplier
Yu, Joel	Rockland Electric Company	Transmission Owner

In Attendance (Non-Voting Participants):

Adams, Drew	A.F. Mensah, Inc.	Other Supplier
Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Allen, Wesley	Red Wolf Energy Trading, LLC	Other Supplier
Berger, Ken	Dominion Virginia Power	Not Applicable
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Borgatti, Michael	Gabel Associates	Not Applicable
Carmean, Gregory	OPSI	Not Applicable
Carrado, Regina	Exelon	Transmission Owner
Carredo, Regina	Exelon	Transmission Owner
Chen, Jennifer	NRDC/FERC Project	Not Applicable
Cocco, Michael	Old Dominion Electric Cooperative	Electric Distributor

Cohen, Joe	Pepco Holdings Incorporated	Not Applicable
Cox, Bill	Exion Energy, Inc.	Other Supplier
Crognale, Robert	PECO Energy Company	Transmission Owner
Crystle, Gil	UGI Development Company	Transmission Owner
Currier, Jeffrey	Virginia Electric & Power Company	Transmission Owner
D'Alessandris, Lou	FirstEnergy Solutions Corporation	Transmission Owner
Davis, Connie	Cleveland Public Power	Electric Distributor
DeLosa, Joseph	State of Delaware Public Service Commission	Not Applicable
Demuyne, Rene	New Jersey Board of Public Utilities	Not Applicable
Denavas, Joe	Potomac Electric Power Company	Electric Distributor
DePillo, Raymond	PSEG	Transmission Owner
Dickson, Douglas	New Jersey Board of Public Utilities	Not Applicable
Dinicola, Laura	FirstEnergy Solutions Corporation	Transmission Owner
Doremus, Steven	EnerNOC, Inc.	Other Supplier
Ellis, Dean	Dynegy Power Marketing, Inc.	Generation Owner
Engle, Andrew	XO Energy MA, LP	Other Supplier
Esposito, Pati	Energy Cooperative Association of PA	Other Supplier
Everngam, Scott	The Federal Energy Regulatory Commission	Not Applicable
Farber, John	Delaware Public Service Commission	Not Applicable
Fernandes, John	Renewable Energy Systems Americas	Not Applicable
Fort, Jim	Energy Authority, Inc. (The)	Other Supplier
Foster, Mike	Customized Energy Solutions	Not Applicable
Gebolys, Debbie	Public Utilities Commission of Ohio	Not Applicable
Giles, Steven	Allegheny Electric Cooperative, Inc.	Electric Distributor
Gomoll, John	Dynegy Power Marketing, Inc.	Generation Owner
Hanson, Mark	Illinois Commerce Commission	Not Applicable
Harmon, Mike	Ameren Energy Marketing Company	Generation Owner
Henry, Valerie	FirstEnergy Solutions Corporation	Transmission Owner
Herel, Suzanne	RTO Insider	Not Applicable
Hilaski, Steve	Pepco Holdings Incorporated	Not Applicable
Hitch, George	Dominion Virginia Power	Not Applicable
Huntoon, Stephen	Energy Counsel, LLP	Not Applicable
Hyzinski, Tom	Talen Energy Marketing, LLC	Generation Owner
Janicki, Diane	Boston Energy Trading and Marketing LLC	Generation Owner
Jardot, Gina	Essential Power, LLC	Generation Owner
Johnson, Nick	Tenaska Power Services Co.	Generation Owner
Johnson, Nick	Penn State University	Not Applicable

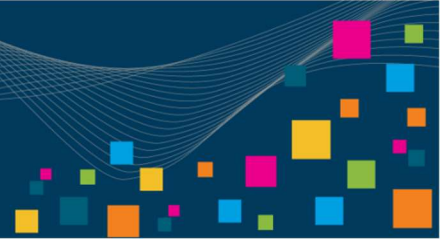
Josyula, Siva	Monitoring Analytics, LLC	Not Applicable
Josyula, Siva	Monitoring Analytics	Not Applicable
Kaczanowski, Marek	Baltimore Gas and Electric Company	Transmission Owner
Kelly, Meg	eCap Network, LLC	Other Supplier
Kilgallen, Kevin	Emerald Energy Consulting, LLC	Not Applicable
King, Alan	PBF Power Marketing LLC	Generation Owner
Lacy, Catharine	Dominion Resources	Not Applicable
Laios, Takis	American Electric Power	Transmission Owner
Lamp, Jeff	DC Energy	Other Supplier
Liang-Nicol, Cecilia	FirstEnergy Solutions Corporation	Transmission Owner
Loudenbourg, Zack	Aces Power Marketing	Not Applicable
Lyke, Audrey	Exelon Generation Co., LLC	Transmission Owner
Ma, Alex	Invenergy LLC	Generation Owner
Manning, James	North Carolina Electric Membership Corporation	Electric Distributor
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	Not Applicable
Marton, Dave	FirstEnergy Solutions Corporation	Transmission Owner
Matheson, Douglas	EnerNOC, Inc.	Other Supplier
McAdams, Julius	Red Wolf Energy Trading, LLC	Other Supplier
McCaffree, Matt	Comverge, Inc.	Not Applicable
McGuirk, George	Platts	Not Applicable
Moerner, Lisa	Virginia Electric & Power Company	Transmission Owner
Mok, Alan	Duke Energy Business Services LLC	Transmission Owner
Noewer, Sharon	FirstEnergy Solutions Corporation	Transmission Owner
O'Connor, Siobhan	The Energy Authority	Other Supplier
Ondayko, Brock	AEP	Transmission Owner
Patten, Kevin	American Electric Power	Transmission Owner
Pierce, Brandon	Pennsylvania Office of Consumer Advocate	End-Use Customer
Pirtle, David	PHI	Not Applicable
Poulos, Greg	EnerNOC, Inc.	Other Supplier
Pratzon, David	GT Power Group	Not Applicable
Price, Dann	CPower Corp	Not Applicable
Rainey, Frank	PEI Power Corporation	Generation Owner
Rajan, Abhijit	Dominion Resources	Not Applicable
Reid, Ryan	ACES	Not Applicable
Ross, Mark	RJUMR Energy Partners Corp.	Other Supplier

Seelaus, Andrew	EMC Development Company, Inc.	Other Supplier
Semrau, Keith	Cleveland Public Power	Electric Distributor
Shanker, Roy	Hydro Quebec	Not Applicable
Staska, Stephanie	Apollo Energy Services	Not Applicable
Tatum, Ed	American Municipal Power, Inc.	Generation Owner
Thomas, Glen	GT Power Group	Not Applicable
Wilmoth, Emily	Dominion Virginia Power	Not Applicable
Wilson, James	Wilson Energy Economics	Not Applicable
Wisersky, Megan	Madison Gas & Electric Company	Other Supplier
Wood, Gordon	ETC Endure Energy, LLC	Other Supplier
Wynn, Laura	Stone, Mattheis, Xenopoulos, & Brew, PC	Not Applicable
Xenopoulos, Damon	Stone, Mattheis, Xenopoulos, & Brew, PC	Not Applicable
York, Katherine	Tennessee Valley Authority (The)	Other Supplier

In Attendance (PJM Participants):

Baker, Scott	PJM Interconnection, LLC	Not Applicable
Barrett, Francis	PJM Interconnection, LLC	Not Applicable
Bastian, Jeff	PJM Interconnection, LLC	Not Applicable
Berner, Aaron	PJM Interconnection, LLC	Not Applicable
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Bresler, Stu	PJM Interconnection, LLC	Not Applicable
Brown, Richard	PJM Interconnection, LLC	Not Applicable
Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Bryson, Michael	PJM Interconnection, LLC	Not Applicable
Budney, David	PJM Interconnection, LLC	Not Applicable
Burlew, Jim	PJM Interconnection, LLC	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Covino, Susan	PJM Interconnection, LLC	Not Applicable
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
Daugherty, Suzanne	PJM Interconnection, LLC	Not Applicable
Dirani, Rami	PJM Interconnection, LLC	Not Applicable
Dotter, Ray	PJM Interconnection, LLC	Not Applicable
Driscoll, Mary Ellen	PJM Interconnection, LLC	Not Applicable
Duane, Vince	PJM Interconnection, LLC	Not Applicable
Egan, Amanda	PJM Interconnection, LLC	Not Applicable
Esterly, Teri	PJM Interconnection, LLC	Not Applicable

Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Falin, Thomas	PJM Interconnection, LLC	Not Applicable
Fereshetian, Damon	PJM Interconnection, LLC	Not Applicable
Foley, Pauline	PJM Interconnection, LLC	Not Applicable
Ford, Adrien	PJM Interconnection, LLC	Not Applicable
Glatz, Suzanne	PJM Interconnection, LLC	Not Applicable
Gledhill, Andrew	PJM Interconnection, LLC	Not Applicable
Hartung, Dean	PJM Interconnection, LLC	Not Applicable
Hendrzak, Chantal	PJM Interconnection, LLC	Not Applicable
Herling, Steven	PJM Interconnection, LLC	Not Applicable
Hoang, Liem	PJM Interconnection, LLC	Not Applicable
Holland, Risa	PJM Interconnection, LLC	Not Applicable
Horowitz, Shira	PJM Interconnection, LLC	Not Applicable
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hugee, Jacquelyn	PJM Interconnection, LLC	Not Applicable
Keech, Adam	PJM Interconnection, LLC	Not Applicable
Kelley, Michael	PJM Interconnection, LLC	Not Applicable
Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Langbein, Pete	PJM Interconnection, LLC	Not Applicable
LaRocque, Matthew	PJM Interconnection, LLC	Not Applicable
Lopez, Veronica	PJM Interconnection, LLC	Not Applicable
Manion, Evelyn	PJM Interconnection, LLC	Not Applicable
McAnany, James	PJM Interconnection, LLC	Not Applicable
McLaverty, Megan	PJM Interconnection, LLC	Not Applicable
McNamara, Sean	PJM Interconnection, LLC	Not Applicable
Mooney, Molly	PJM Interconnection, LLC	Not Applicable
Morelli, Lisa	PJM Interconnection, LLC	Not Applicable
Murphy-Lee, Lori	PJM Interconnection, LLC	Not Applicable
Noonan, Tom	PJM Interconnection, LLC	Not Applicable
Patel, Keyur	PJM Interconnection, LLC	Not Applicable
Pilong, Chris	PJM Interconnection, LLC	Not Applicable
Quevada, Jason	PJM Interconnection, LLC	Not Applicable
Reynolds, John	PJM Interconnection, LLC	Not Applicable
Robinson, Evelyn	PJM Interconnection, LLC	Not Applicable
Rocha Garrido, Patricio	PJM Interconnection, LLC	Not Applicable
Schmitt, Jeff	PJM Interconnection, LLC	Not Applicable
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable



Schweizer, David	PJM Interconnection, LLC	Not Applicable
Sechrist, Erin	PJM Interconnection, LLC	Not Applicable
Slusser, Jeff	PJM Interconnection, LLC	Not Applicable
Snyder, Sue	PJM Interconnection, LLC	Not Applicable
Sotkiewicz, Paul	PJM Interconnection, LLC	Not Applicable
Stotesbury, Christina	PJM Interconnection, LLC	Not Applicable
Swimm, Nora C.	PJM Interconnection, LLC	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Velasco, Cheryl	PJM Interconnection, LLC	Not Applicable
Ward, Mike	PJM Interconnection, LLC	Not Applicable
Weiss, Glenn	PJM Interconnection, LLC	Not Applicable
Williams, Stan	PJM Interconnection, LLC	Not Applicable

Author: D. A. Anders

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