

**Markets and Reliability Committee**  
**The Chase Center on the Riverfront, Wilmington, DE**  
**July 23, 2015**  
**9:30 a.m. – 4:00 p.m. EPT**

## Administration (9:30-9:35)

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

## Endorsements/Approvals (9:35-11:30)

### 1. Draft Minutes (9:35-9:40)

Minutes of the June 25, 2015 Markets and Reliability Committee (MRC) meeting, and the minutes of the two special meetings of the MRC held on June 10, 2015 and July 15, 2015 were **approved** by acclamation with no objections or abstentions.

### 2. PJM Manuals (9:40-9:55)

- A. Mr. Mike Del Viscio presented proposed revisions to Manual 01: Control Center and Data Exchange Requirements.
- B. Mr. Chris Pulong presented proposed revisions to Manual 13: Emergency Operations.

Following discussion, the proposed revisions in items 2.A and 2.B were **endorsed** by acclamation with no objections or abstentions.

### 3. Capacity Performance (9:55-10:45)

Mr. Bresler discussed the FERC order received late on July 22, 2015 in dockets ER15-623-002, EL15-29-001, EL15-41-001 and EL15-80-000 regarding participation of demand response (DR) and energy efficiency (EE) resources in the 2016/17 and 2017/2018 Transition Auctions. He noted that the FERC order requires that PJM amend its Tariff to allow DR and EE resources to participate in the two Transition Auctions, and to file changes to the auction schedule to allow meaningful participation. He indicated that the two Transition Auctions would likely be held in the first two weeks of September, 2015, and that a final schedule would be published as soon as possible. He noted that the schedule and plans for the 2018/2019 Base Residual Auction (BRA) remain unchanged.

- A. Ms. Terri Esterly discussed proposed revisions to Manual 18: PJM Capacity Market related to Capacity Performance. Mr. Bresler noted comments from several Members indicating their desire for further development of additional detail regarding certain provisions of the Manual revisions that do not directly pertain to the 2018/2019 BRA. He recommended that the proposed Manual 18 revisions be endorsed subject to continued review of these non-BRA related provisions, and there were no objections. Following discussion, the proposed revisions were **endorsed** by acclamation with one objection and 25 abstentions.

B. Mr. Tom Falin discussed proposed revisions to Manual 20: PJM Resource Adequacy Analysis related to the determination of Limited-Availability Resource Constraints under Capacity Performance. Following discussion, the proposed revisions were **endorsed** by acclamation with five objections and eight abstentions.

4. FERC Order 1000 Proposal Fee Update (10:45-10:55)

Mr. Fran Barrett presented a proposed revision to previously endorsed proposal fees. Following discussion, the proposed revisions were **endorsed** by acclamation with no objections or abstentions.

5. Merchant Network Upgrade (10:55-11:10)

Mr. Jason Connell presented proposed Tariff revisions related to merchant network upgrades. Following discussion, the proposed revisions were **endorsed** by acclamation with no objections or abstentions.

6. Timing of Replacement Capacity Transactions (11:10-11:25)

Mr. Paul Scheidecker presented a proposal related to timing of procuring replacement capacity developed by the Market Implementation Committee. Mr. Tom Rutigliano, Enerwise Global Technologies, Inc., proposed a friendly amendment to allow replacement transactions before November 30<sup>th</sup> prior to the delivery year under the same conditions as currently apply to transactions made after that date. Several Members objected and therefore Mr. Rutigliano moved the proposal as an alternate motion. Following discussion, the main motion was **endorsed** in a sector-weighted vote with 3.44 in favor.

7. Market Data Confidentiality Clarifications (11:25-11:40)

Mr. Tom Zadlo presented a proposed problem statement and issue charge related to Market Data Confidentiality Clarifications. Mr. Barker requested that the work be assigned to the Market Implementation Committee, and there were no objections to this assignment. Dr. Joe Bowring requested that Three Pivotal Supplier Test results be added to the scope, and there were no objections to this being added to the scope as a friendly amendment. Mr. Fitch noted that proposed Manual revisions had been posted with the materials for the meeting, and requested clarification that the action requested at this meeting was limited to approval of the problem statement and issue charge. Mr. Kormos provided that confirmation. Mr. Bleiweis proposed a friendly amendment to increase the scope to include a generalized review of confidentiality provisions. This was not considered friendly. Following discussion the proposed problem statement and issue charge (as amended to include the Three Pivotal Supplier Test results) were **approved** by acclamation with no objections and one abstention.

8. Regulation Market Issues (11:40-12:00)

Dr. Joe Bowring, Monitoring Analytics, will present a proposed problem statement and issue charge related to Regulation Market Issues, and noted that the issue should be assigned to a new senior task force reporting to the MRC. Following discussion the proposed problem statement and issue charge

were **approved** in a sector-weighted vote with 3.29 in favor (note that the threshold for approval of proposed problem statements and issue charges is 2.50).

9. Markets Related Governing Document Updates (12:45-1:00)

Ms. Jacqui Huges presented a proposed problem statement and issue charge regarding markets related governing document updates. Mr. Dave Anders suggested that the scope be assigned to the Tariff Harmonization Senior Task Force (THSTF), and that the THSTF be converted to a subcommittee reporting to the MRC. There were no objections to this assignment. Following discussion, the proposed problem statement and issue charge were **approved** by acclamation with no objections or abstentions.

10. FTR/ARR Senior Task Force (1:00-1:15)

Mr. Steve Lieberman, ODEC, moved and Mr. John Rohrbach seconded a proposal related to solutions developed but not endorsed by the FTRSTF. Following discussion the motion **failed** in a sector-weighted vote with 2.95 in favor. Mr. Carl Johnson moved and Mr. Jim Jablonski seconded that the FTRSTF be sunset. The motion was **approved** by acclamation with no objections or abstentions.

11. Tariff Harmonization Senior Task Force (1:15-1:30)

Ms. Janell Fabiano presented proposed Operating Agreement and Reliability Assurance agreement revisions developed by the THSTF. Following discussion, the proposed revisions were **endorsed** by acclamation with no objections or abstentions.

12. Tariff Harmonization Senior Task Force (THSTF) (1:30-1:45)

Ms. Janell Fabiano presented additional proposed Operating Agreement and Reliability Assurance agreement revisions developed by the THSTF. Mr. Mike Kormos requested that the MRC endorse these proposed revisions at their first reading; there was no objection. Following discussion, the proposed revisions were **endorsed** by acclamation with no objections or abstentions.

### First Readings (11:30-3:45)

13. External Capacity Transfer Rights (1:45-2:00)

Ms. Jen Tribulski, PJM, and Mr. Troy Fodor, Illinois Municipal Electric Agency, presented a proposal to address the Capacity Rights Issue Charge. The Committee will be asked to endorse the proposal at its next meeting.

14. Transparency of Operational Changes (2:20-2:35)

Ms. Lisa Morelli discussed a proposal regarding the Transparency of Operational Changes. The Committee will be asked to endorse the associated manual revisions at its next meeting.

## 15. Markets Gateway (3:25-3:40)

Ms. Carla Thew and Mr. Steve Shparber discussed the evolution of eMkt to Markets Gateway, and Mr. Steve Shparber will present associated proposed Tariff revisions. The Committee will be asked to endorse the proposed revisions at it a future meeting.

## 16. PJM Manuals (3:40-4:00)

A. Mr. D'Antonio reviewed changes to Manual 37: Reliability Coordination. The Committee will be asked to endorse these proposed revisions at its next meeting.

### Future Agenda Items (4:00)

No new future agenda items were identified.

### Future Meeting Dates

August 27, 2015	9:00 a.m.	Wilmington, DE
October 1, 2015	9:00 a.m.	PJM Conference & Training Center, Audubon, PA
October 22, 2015	9:00 a.m.	Wilmington, DE
November 19, 2015	9:00 a.m.	Wilmington, DE
December 17, 2015	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
Bleiweis, Bruce	Rep'g. Alphataraxia Palladium LLC	Other Supplier
Bleiweis, Bruce	Rep'g. BJ Energy, LLC	Other Supplier
Bleiweis, Bruce	Rep'g. DC Energy LLC	Other Supplier
Bleiweis, Bruce	Rep'g. H-P Energy Resources LLC	Other Supplier
Bleiweis, Bruce	Rep'g. Inertia Power I, LLC	Other Supplier
Bolan, Martin	FirstEnergy Solutions Corp.	Transmission Owner
Brodbeck, John	Potomac Electric Power Company	Electric Distributor
Bruce, Susan	Rep'g. Air Liquide Industrial U.S., LP	End User Customer
Bruce, Susan	Rep'g. Air Products & Chemicals, Inc.	End User Customer
Bruce, Susan	Rep'g. Gerdau Ameristeel Energy, Inc.	Other Supplier
Bruce, Susan	Rep'g. Industrial Energy Users-Ohio	Other Supplier
Bruce, Susan	Rep'g. Kimberly-Clark Corporation	Generation Owner
Bruce, Susan	Rep'g. Lehigh Portland Cement Company	End User Customer
Bruce, Susan	Rep'g. Letterkenny Industrial Development Authority	Electric Distributor
Bruce, Susan	Rep'g. Linde LLC	End User Customer

Bruce, Susan	Rep'g. MeadWestvaco Corporation	End User Customer
Bruce, Susan	Rep'g. Praxair, Inc.	End User Customer
Bruce, Susan	Rep'g. Procter & Gamble Paper Products Company (The)	End User Customer
Bruce, Susan	Rep'g. Trustees of the U of PA, dba University of Pennsylvania	End User Customer
Bruce, Susan	Rep'g. Wellsboro Electric Company	Electric Distributor
Campbell, Bruce	Rep'g. EnergyConnect, Inc.	Other Supplier
Campbell, Bruce	Rep'g. Mid-Atlantic Power Partners	Other Supplier
Citrolo, John	Public Service Electric & Gas Company	Transmission Owner
Cox, Jason	Dynegy Marketing & Trade, LLC	Generation Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ellison, Alan	Grays Ferry Cogeneration Partnership	Generation Owner
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Foladare, Kenneth	IMG Midstream LLC	Generation Owner
Fondacci, Luis	North Carolina Electric Membership Corporation	Electric Distributor
Fuess, Jay	Rep'g. Castlebridge Energy Group, LLC	Other Supplier
Fuess, Jay	Rep'g. Church Hill Solar Farm, LLC	Generation Owner
Fuess, Jay	Rep'g. Diamond State Generation Partners, LLC	Generation Owner
Fuess, Jay	Rep'g. Energy Consulting Services LLC	Other Supplier
Fuess, Jay	Rep'g. Icetec.com, Inc.	Other Supplier
Fuess, Jay	Rep'g. Kuehne Chemical Company, Inc.	Other Supplier
Fuess, Jay	Rep'g. PBF Power Marketing LLC	Generation Owner
Garnett, Bryan	Duke Energy Business Services LLC	Transmission Owner
Greening, Michele	Talen Energy Marketing, LLC	Generation Owner
Griffiths, Dan	Rep'g. Division of the Public Advocate of State of Delaware	End User Customer
Griffiths, Dan	Rep'g. Illinois Citizens Utility Board	End User Customer
Griffiths, Dan	Rep'g. Indiana Office of Utility Consumer Counsel	End User Customer
Griffiths, Dan	Rep'g. Maryland Office of Peoples Counsel	End User Customer
Griffiths, Dan	Rep'g. New Jersey Div. of the Ratepayer Advocate	End User Customer
Griffiths, Dan	Rep'g. Ofc... People's Counsel ... District of Columbia	End User Customer
Griffiths, Dan	Rep'g. Office of the Attorney General, Kentucky	End User Customer
Griffiths, Dan	Rep'g. Office of the Ohio Consumers' Counsel	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
Guerry, Katie	EnerNOC, Inc.	Other Supplier
Hastings, David	Rep'g. Mercuria Energy America, Inc.	Other Supplier
Hastings, David	Rep'g. Northstar Trading Ltd.	Other Supplier
Hastings, David	Rep'g. Saracen Energy East LP	Other Supplier
Hastings, David	Rep'g. SESCO Enterprises LLC	Other Supplier
Hastings, David	Rep'g. Twin Cities Power, 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
Jablonski, James	Rep'g. Borough of Butler, Butler Electric Division	Electric Distributor
Jablonski, James	Rep'g. Borough of Lavallette, New Jersey	Electric Distributor
Jablonski, James	Rep'g. Borough of Madison, 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 Pemberton	Electric Distributor
Jablonski, James	Rep'g. Borough of Seaside Heights, New Jersey	Electric Distributor
Jablonski, James	Rep'g. Borough of South River, New Jersey	Electric Distributor
Jablonski, James	Rep'g. Vineland Municipal Electric Utility	Electric Distributor
Jardot, Gina	Essential Power Rock Springs, LLC	Transmission Owner
Johnson, Carl	Rep'g. Allegheny Electric Cooperative, Inc.	Electric Distributor
Johnson, Carl	Rep'g. American Municipal Power, Inc.	Electric Distributor
Johnson, Carl	Rep'g. Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson, Carl	Rep'g. Borough of Chambersburg (DTEET)	Electric Distributor
Johnson, Carl	Rep'g. Buckeye Power, Inc.	Electric Distributor
Johnson, Carl	Rep'g. Central Virginia Electric Cooperative	Electric Distributor
Johnson, Carl	Rep'g. City of Dover, Delaware	Electric Distributor
Johnson, Carl	Rep'g. Delaware Municipal Electric Corporation	Electric Distributor
Johnson, Carl	Rep'g. Easton Utilities Commission	Electric Distributor
Johnson, Carl	Rep'g. Energy Cooperative Association of PA	Other Supplier
Johnson, Carl	Rep'g. Galt Power Inc.	Other Supplier
Johnson, Carl	Rep'g. Hagerstown Light Department	Electric Distributor
Johnson, Carl	Rep'g. Illinois Municipal Electric Agency	Electric Distributor
Johnson, Carl	Rep'g. Indiana Municipal Power Agency	Generation Owner
Johnson, Carl	Rep'g. Madison Gas & Electric Company	Other Supplier
Johnson, Carl	Rep'g. Mont Alto, PA (Borough of)	Electric Distributor
Johnson, Carl	Rep'g. North Carolina Electric Membership Corporation	Electric Distributor
Johnson, Carl	Rep'g. North Carolina Municipal Power Agency # 1	Other Supplier
Johnson, Carl	Rep'g. Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson, Carl	Rep'g. Old Dominion Electric Cooperative	Electric Distributor
Johnson, Carl	Rep'g. Thurmont Municipal Light Company	Electric Distributor
Johnson, Carl	Rep'g. Williamsport, MD (Town of)	Electric Distributor
Johnson, Carl	Rep'g. WPPI Energy	Other Supplier
Kelly, Stephen	Brookfield Energy Marketing LP	Other Supplier
Kogut, George	New York Power Authority	Other Supplier
Lieberman, Steven	DTE Energy Trading, Inc.	Other Supplier
Lieberman, Steven	Old Dominion Electric Cooperative	Electric Distributor
Loneragan, Brian	Elliott Bay Energy Trading, LLC	Other Supplier

Long, Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Ma, Alex	Invenergy, LLC	Generation Owner
Martin, Aaron	CMS Energy Resource Management Company	Other Supplier
Melnyk, Markian	Atlantic Grid Operations A, LLC	Other Supplier
Moerner, Lisa	Virginia Electric & Power Company	Transmission Owner
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
Peoples, John	Duquesne Light Company	Transmission Owner
Philips, Marji	Direct Energy Business, LLC	Other Supplier
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
Rushing, Nathan	CPV Maryland, LLC	Generation Owner
Rutigliano, Tom	Rep'g. Achieving Equilibrium LLC	Other Supplier
Rutigliano, Tom	Rep'g. Demansys Energy, LLC	Other Supplier
Rutigliano, Tom	Rep'g. EMC Development Company, Inc.	Other Supplier
Rutigliano, Tom	Rep'g. Enerwise Global Technologies, Inc.	Other Supplier
Scarp, David	Calpine Energy Services, L.P.	Generation Owner
Scoglietti, Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Singh, Harry	J. Aron & Company	Other Supplier
Skucas, Ruta	Rep'g. Apple Group LLC	Other Supplier
Skucas, Ruta	Rep'g. Dufossat Capital I, LLC	Other Supplier
Skucas, Ruta	Rep'g. Dyon, LLC	Other Supplier
Skucas, Ruta	Rep'g. E Minus LLC	Other Supplier
Skucas, Ruta	Rep'g. Falcon Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g. Great Bay Energy I, LLC	Other Supplier
Skucas, Ruta	Rep'g. Greene Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g. Hexis Energy Trading, LLC	Other Supplier
Skucas, Ruta	Rep'g. Liberty Hill Power LLC	Other Supplier
Skucas, Ruta	Rep'g. Mac Trading, Inc	Other Supplier
Skucas, Ruta	Rep'g. MET MA, LLC	Other Supplier
Skucas, Ruta	Rep'g. Monterey MA, LLC	Other Supplier
Skucas, Ruta	Rep'g. Pure Energy, Inc.	Other Supplier
Skucas, Ruta	Rep'g. Red Wolf Energy Trading, LLC	Other Supplier
Skucas, Ruta	Rep'g. RJUMR Energy Partners Corp. (UTC)	None
Skucas, Ruta	Rep'g. Solea Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g. Southard Energy Partners LLC	Other Supplier
Skucas, Ruta	Rep'g. Yasmin Partners LLC	Other Supplier
Stewart, Travis	Reg'g. NextEra Energy Power Marketing, LLC	Generation Owner

Stewart, Travis	Rep'g. Jersey Green Energy LLC	Other Supplier
Stewart, Travis	Rep'g. York County Solid Waste and Refuse Authority	Generation Owner
Thompson, Matt	Property Endeavors, LLC	End User Customer
Trayers, Barry	Citigroup Energy, Inc.	Other Supplier
Wadsworth, Joe	Vitol Inc.	Other Supplier
Yu, Joel	Rockland Electric Company	Transmission Owner

### In Attendance (Non-Voting Participants):

Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Apgar, John	BAM Funds	Not Applicable
Azar, Abe	Deutsche Bank	Not Applicable
Bagot, Nancy	Electric Power Supply Association	Not Applicable
Bainbridge, Thomas	FirstEnergy Solutions Corporation	Transmission Owner
Barkanic, Bob	Talen Energy Marketing, LLC	Generation Owner
Batta, Michael	Virginia Electric and Power Company	Transmission Owner
Behrens, Jason	Tenaska Power Services Co.	Generation Owner
Beltes, Alex	NorthBridge Group	Not Applicable
Benchek, Jim	FirstEnergy Solutions Corporation	Transmission Owner
Berger, Ken	Dominion Virginia Power	Not Applicable
Berlinski, Mike	Customized Energy Solutions	Not Applicable
Bickerstaff, Dean	Panda Power Funds	Generation Owner
Binet, Tom	PA Consulting	Not Applicable
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Bunch, Kevin	EDF Trading North America, LLC	Other Supplier
Canchi, Devendra	Monitoring Analytics, LLC	Not Applicable
Caylor, Ryan	Tudor, Pickering, Holt & Co.	Not Applicable
Chen, Jennifer	NRDC/FERC Project	Not Applicable
Crawford, Jonathan	Bloomberg News	Not Applicable
Czigler, Frank	PSEG	Transmission Owner
Davis, Connie	Cleveland Public Power	Electric Distributor
Dayal, Hanish	Hemsworth Capital Management LLC	Not Applicable
DeGeeter, Ralph	Public Service Commission of Maryland	Not Applicable
DeLosa, Joseph	State of Delaware Public Service Commission	Not Applicable
Denavas, Joe	Potomac Electric Power Company	Electric Distributor
Diamant, Martin	PSEG	Transmission Owner
Dinicola, Laura	FirstEnergy Solutions Corporation	Transmission Owner
Dizikes, Cynthia	Chicago Tribune	Not Applicable
Doan, Lynn	Bloomberg News	Not Applicable
Doremus, Steven	EnerNOC, Inc.	Other Supplier
Farber, John	Delaware Public Service Commission	Not Applicable

Feierabend, Rick	Dominion Virginia Power	Not Applicable
Fernandes, John	Renewable Energy Systems Americas	Not Applicable
Fernandez, Jonathan	The Federal Energy Regulatory Commission	Not Applicable
Fisher, Amy	Homer City Generation, L.P.	Generation Owner
Fukuda, Shin	Carlson Capital, L.P.	Not Applicable
Gallagher, William	A.F. Mensah, Inc.	Other Supplier
Gebolys, Debbie	Public Utilities Commission of Ohio	Not Applicable
Godson, Gloria	Potomac Electric Power Company	Electric Distributor
Guler, Teoman	Goldman Sachs	Not Applicable
Haas, Howard	Monitoring Analytics, LLC	Not Applicable
Hall, Walter	Maryland Public Service Commission	Not Applicable
Hanson, Mark	Illinois Commerce Commission	Not Applicable
Harmon, Mike	Ameren Energy Marketing Company	Generation Owner
Hayik, Seth	Monitoring Analytics, LLC	Not Applicable
Hebert, Chris	Beacon Power Corporation	Other Supplier
Heidorn, Richard	RTO Insider	Not Applicable
Heisey, Bradley	Tenaska Power Services Co.	Generation Owner
Herel, Suzanne	RTO Insider	Not Applicable
Hilaski, Steve	Pepco Holdings Incorporated	Not Applicable
Hitch, George	Dominion Virginia Power	Not Applicable
Huis, Diane	North Carolina Electric Membership Corporation	Electric Distributor
Huntoon, Stephen	Energy Counsel, LLP	Not Applicable
Hyzinski, Tom	Talen Energy Marketing, LLC	Generation Owner
Icart, Eric	The Federal Energy Regulatory Commission	Not Applicable
James, Denise	Dominion Energy Marketing, Inc.	Generation Owner
Janicki, Diane	Boston Energy Trading and Marketing LLC	Generation Owner
Jasani, Sachin	Red Wolf Energy Trading, LLC	Other Supplier
Jett, William	Duke Energy Business Services, Inc.	Generation Owner
Johnson, Nick	Tenaska Power Services Co.	Generation Owner
Johnson, Nick	Penn State University	Not Applicable
Jones, Ryan	Allegheny Electric Cooperative, Inc.	Electric Distributor
Kaczanowski, Marek	Baltimore Gas and Electric Company	Transmission Owner
Kerman, Feliks	Visium Asset Management	Not Applicable
Knight, Chris	Argus Media	Not Applicable
Korczykowski, Ryan	NuEnergen, LLC	Other Supplier
Kothyakapu, Rakesh	Illinois Municipal Electric Agency	Electric Distributor
Kueker, Daniel	J-Power USA	Not Applicable
Levine, Jeffrey	GDF Suez Energy Marketing NA, Inc.	Other Supplier
Liang-Nicol, Cecilia	FirstEnergy Solutions Corporation	Transmission Owner
Logan, Sharon	The Federal Energy Regulatory Commission	Not Applicable

Lopez, Danielle	Office of the Peoples Counsel for the District of Columbia	Not Applicable
Mah, Norman	ConEdison Energy Inc.	Other Supplier
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	Not Applicable
Marrin, Peter	SNL Energy	Not Applicable
Martin, Valerie	The Federal Energy Regulatory Commission	Not Applicable
Marton, Dave	FirstEnergy Solutions Corporation	Transmission Owner
McAdams, Julius	Red Wolf Energy Trading, LLC	Other Supplier
McAlister, Lisa	American Municipal Power, Inc.	Generation Owner
McDonald, Steve	Customized Energy Solutions, Ltd.*	Not Applicable
Merola, Becky	Noble Americas Energy Solutions LLC	Other Supplier
Metzler, Jacob	Castleton Commodities Merchant Trading L.P.	Other Supplier
Miller, John	Commonwealth Edison Company	Transmission Owner
Mok, Alan	Duke Energy Business Services LLC	Transmission Owner
Monroe, Alicia	The Federal Energy Regulatory Commission	Not Applicable
Nemeroff, Stacy	Bloomberg News	Not Applicable
O'Connor, Siobhan	The Energy Authority	Other Supplier
Ondayko, Brock	AEP	Transmission Owner
Orlando, Jim	Northern Indiana Public Service Company	Other Supplier
Patterson, Paul	Glenrock Associates	Not Applicable
Peebles, Andy	Saracen Energy East LP	Other Supplier
Pratzon, David	GT Power Group	Not Applicable
Rains, Robert	Washington Analysis	Not Applicable
Rismiller, Randy	The Illinois Commerce Commission	Not Applicable
Rivera-Linares, Corina	Pennwell	Not Applicable
Robins, Pip	EMC Development Company, Inc.	Other Supplier
Saini, Ishwar	Macquarie Energy LLC	Other Supplier
Sanger, Martha	AEP	Transmission Owner
Scherer, Paul	Commonwealth Edison Company	Transmission Owner
Shanker, Roy	Hydro Quebec	Not Applicable
Shelton, Chris	Millenium Power, Inc	Not Applicable
Sidhom, Noha	Inertia Power I, LLC	Other Supplier
Sillin, John	The Federal Energy Regulatory Commission	Not Applicable
Slade, Louis	Virginia Electric and Power Company	Transmission Owner
Slifer, Diane	Viauna	Not Applicable
Stuchell, Jeff	FirstEnergy Solutions Corporation	Transmission Owner
Theodore, Sharon	Electric Power Supply Association	Not Applicable
Thomas, Glen	GT Power Group	Not Applicable
Verderame, John	Duke American Transmission Company	Not Applicable

Vogel, Anne	American Electric Power	Transmission Owner
Watson, Mark	Platts	Not Applicable
Weaver, David	Exelon	Transmission Owner
Weber, Adam	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Weber, Harry	Bloomberg News	Not Applicable
Webster, John	Icetek.com, Inc.	Other Supplier
Wellborn, Samir	The Federal Energy Regulatory Commission	Not Applicable
Wilhite, Chad	FirstEnergy Solutions Corporation	Transmission Owner
Wilmoth, Emily	Dominion Virginia Power	Not Applicable
Wood, Gordon	ETC Endure Energy, LLC	Other Supplier
York, Katherine	Tennessee Valley Authority (The)	Other Supplier
Zephyr, Frantz	Public Service Electric & Gas Company	Transmission Owner

### 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
Bhavaraju, Murty	PJM Interconnection, LLC	Not Applicable
Bratspis, David	PJM Interconnection, LLC	Not Applicable
Bresler, Stu	PJM Interconnection, LLC	Not Applicable
Bryson, Michael	PJM Interconnection, LLC	Not Applicable
Burlew, Jim	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joe	PJM Interconnection, LLC	Not Applicable
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable
D'Antonio, Phil	PJM Interconnection, LLC	Not Applicable
Dirani, Rami	PJM Interconnection, LLC	Not Applicable
Dolan, James	PJM Interconnection, LLC	Not Applicable
Driscoll, Mary Ellen	PJM Interconnection, LLC	Not Applicable
DuPont Kidd, Paula	PJM Interconnection, LLC	Not Applicable
Egan, Amanda	PJM Interconnection, LLC	Not Applicable
Endress, Eric	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
Ford, Adrien	PJM Interconnection, LLC	Not Applicable
Franks, Chris	PJM Interconnection, LLC	Not Applicable
Glazer, Craig	PJM Interconnection, LLC	Not Applicable
Harhai, Michelle	PJM Interconnection, LLC	Not Applicable
Hartung, Dean	PJM Interconnection, LLC	Not Applicable
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable

Herling, Steven	PJM Interconnection, LLC	Not Applicable
Herman, Michael	PJM Interconnection, LLC	Not Applicable
Holland, Risa	PJM Interconnection, LLC	Not Applicable
Horger, Tim	PJM Interconnection, LLC	Not Applicable
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hugee, Jacquelyn	PJM Interconnection, LLC	Not Applicable
Kelley, Michael	PJM Interconnection, LLC	Not Applicable
Kenney, Susan	PJM Interconnection, LLC	Not Applicable
Koza, Frank	PJM Interconnection, LLC	Not Applicable
Langbein, Pete	PJM Interconnection, LLC	Not Applicable
LaRocque, Matthew	PJM Interconnection, LLC	Not Applicable
Loomis, Harold	PJM Interconnection, LLC	Not Applicable
Manion, Evelyn	PJM Interconnection, LLC	Not Applicable
McGlynn, Paul	PJM Interconnection, LLC	Not Applicable
McLaverty, Megan	PJM Interconnection, LLC	Not Applicable
Nice, Ryan	PJM Interconnection, LLC	Not Applicable
Noonan, Tom	PJM Interconnection, LLC	Not Applicable
O'Neill, Jack	PJM Interconnection, LLC	Not Applicable
Pilong, Chris	PJM Interconnection, LLC	Not Applicable
Price, Robert	PJM Interconnection, LLC	Not Applicable
Quintavalla, Ginger	PJM Interconnection, LLC	Not Applicable
Scheideker, Paul	PJM Interconnection, LLC	Not Applicable
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable
Sechrist, Erin	PJM Interconnection, LLC	Not Applicable
Shoemaker, Jason	PJM Interconnection, LLC	Not Applicable
Shparber, Steve	PJM Interconnection, LLC	Not Applicable
Slusser, Jeff	PJM Interconnection, LLC	Not Applicable
Sotkiewicz, Paul	PJM Interconnection, LLC	Not Applicable
Souder, Michelle	PJM Interconnection, LLC	Not Applicable
Stotesbury, Christina	PJM Interconnection, LLC	Not Applicable
Swimm, Nora C.	PJM Interconnection, LLC	Not Applicable
Tacka, Natalie	PJM Interconnection, LLC	Not Applicable
Thew, Carla	PJM Interconnection, LLC	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Velasco, Cheryl	PJM Interconnection, LLC	Not Applicable
Walter, Laura	PJM Interconnection, LLC	Not Applicable
Weiss, Glenn	PJM Interconnection, LLC	Not Applicable
Williams, Stan	PJM Interconnection, LLC	Not Applicable
Wolfinger, Robert	PJM Interconnection, LLC	Not Applicable
Yeager, Leslie	PJM Interconnection, LLC	Not Applicable



# Minutes



Zadlo, Thomas

PJM Interconnection, LLC

Not Applicable

Author: D. A. Anders