

Markets and Reliability Committee The Chase Center on the Riverfront, Wilmington, DE October 22, 2015 9:00 a.m. – 12:15 p.m. EPT

### Administration (9:00-9:05)

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

### Information (9:05-9:20)

1. Virtual Transactions in the PJM Energy Markets (9:05-9:20)

Mr. Adam Keech provided follow up on the discussion initiated at the October 19, 2015 Members Committee Webinar regarding the whitepaper entitled Virtual Transactions in the PJM Energy Markets recently published by PJM staff.

### Endorsements/Approvals (9:20-10:55)

2. Draft Minutes (9:20-9:25)

Minutes of the October 1, 2015 and October 16, 2015 meetings of the Markets and Reliability Committee (MRC) meeting were **approved** by acclamation with no objections or abstentions.

- 3. PJM Manuals (9:25-9:35)
  - A. Mr. Mark Sims presented proposed Manual 14B: PJM Regional Transmission Planning Process revisions regarding Winter Reliability Criteria in Planning. Following discussion, the committee <u>endorsed</u> the proposed manual revisions by acclamation with no objections and one abstention.
- 4. Tier 1 Compensation (9:35-9:55)

Mr. Adam Keech reviewed draft manual and tariff revisions associated with the Tier 1 Compensation proposal. Following discussion, the main motion <u>failed</u> in a sector-weighted vote with 2.72 in favor. Mr. Steve Lieberman, ODEC, proposed and Mr. Jim Jablonski, Public Power Association of New Jersey, seconded the IMM package as an alternate proposal. Following discussion the alternate motion <u>failed</u> in a sector-weighted vote with 2.87in favor. No further action was taken, and current rules remain in effect.

5. Regulation Performance Impacts (9:55-10:10)

Mr. Eric Hsia presented the proposed resolution to operational regulation performance issues. Following discussion, the committee **<u>endorsed</u>** the associated revisions to Manual 11: Energy & Ancillary Services Markets Operations by acclamation with no objections or abstentions.



### 6. Regulation Market Issues Sr. Task Force (RMISTF) (10:10-10:20)

Mr. Dave Anders discussed the draft charter for the RMISTF. Mr. Jason Barker discussed the unique characteristics of hydro resources, and expressed expectation that they would be considered by the Task Force. Mr. Anders and Dr. Howard Haas both indicated that the identified Key Work Activities currently require such consideration. Following discussion the committee **<u>approved</u>** the draft charter by acclamation with no objections or abstentions.

#### 7. Incremental Auction Tariff Clean Up (10:20-10:30)

Ms. Jen Tribulski presented a Tariff revision for the 2016/2017 Third Incremental Auction concerning PJM's sale or purchase of capacity necessitated by the Capacity Performance Transition Auctions. Following discussion the committee **endorsed** the proposed Tariff revisions in a sector-weighted vote with 4.59 in favor.

### 8. 2015 IRM Study Results (10:30-10:45)

Mr. Tom Falin reviewed the 2015 IRM Study Results. Following discussion the committee **endorsed** the recommended planning parameters by acclamation with five objections 19 abstentions.

### 9. <u>Governing Documents Enhancement & Clarification Subcommittee (GDECS) (10:45-10:55)</u>

Ms. Janell Fabiano presented the draft charter for the GDECS. Mr. Ed Tatum proposed a friendly amendment to change the first Key Work Activity to change "and resolve" to "and propose resolution of". There were no objections to this proposed amendment and therefore it was incorporated into the main motion. Following discussion the committee **approved** the draft charter by acclamation with no objections and two abstentions.

### First Readings (10:55-12:15)

- 10. Load Forecast Update (10:55-11:25)
  - A. Mr. Tom Falin reviewed proposed revisions to Manual 19: Load Forecasting and Analysis regarding updates to the PJM load forecast model. The committee will be asked to endorse the proposed revisions at its next meeting.
  - B. 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. The committee will be asked to endorse the proposed revisions at its next meeting. Mr. Kormos noted that an additional special MRC meeting would be scheduled to continue vetting of the proposed Manual 18 and 18B revisions.

### 11. Governing Documents Enhancement & Clarification Subcommittee (GDECS) (11:25-11:35)

Ms. Janell Fabiano presented proposed definitional updates prepared by the GDECS. The committee will be asked to approve the proposed updates at its next meeting.



### 12. First Energy Black Oak Special Protective Scheme (SPS) Removal (11:35-11:45)

Mr. Evan Farrell and Mr. Larre Hozempa, First Energy discussed removal of the Black Oak SPS.

### 13. PJM Manuals (11:45-12:15)

- A. Mr. Ryan Nice discussed proposed revisions to Manual 01: Control Center and Data Exchange Requirements regarding interpersonal communication requirements for NERC COM-001-2. The Committee will be asked to endorse these proposed revisions at its next meeting.
- B. Ms. Nicole Scott discussed proposed revisions to Manual 03: Transmission Operations regarding the bi-annual review to update operating procedures. The Committee will be asked to endorse these proposed revisions at its next meeting.
- C. Ms. Chidiogo Ike-Egbuonu discussed proposed clarifying revisions to Manual 12: Balancing Operations. The Committee will be asked to endorse these proposed revisions at its next meeting.
- D. Mr. Eric Hsia discussed proposed Manual 13: Emergency Operations revisions regarding updates to Day Ahead Scheduling Reserve and additional updates. The Committee will be asked to endorse these proposed revisions at its next meeting.
- E. Mr. McGlynn discussed proposed revisions to Manual 14B: PJM Regional Transmission Planning Process regarding the considering Energy market Uplift in the development of candidate RTEP projects. The Committee will be asked to endorse these proposed revisions at its next meeting.
- F. Mr. Michael Herman presented proposed revisions to Manual 14B: PJM Regional Transmission Planning Process regarding NERC TPL–001-4 standards. The Committee will be asked to endorse these proposed revisions at its next meeting.

#### Future Agenda Items (12:15)

No new future agenda items were identified.

Future Meeting Dates				
November 19, 2015 December 17, 2015	9:00 a.m. 9:00 a.m.	Wilmington, DE Wilmington, DE		
In Attendance (Chair/Secretary):				
Kormos, Michael	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	



Bernier, Luc	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Birnel, William	Westar Energy, Inc.	Other Supplier
Borgatti, Michael	Rep'g Northampton Generating Company L.P.	Generation Owner
Borgatti, Michael	Rep'g Covanta Energy Group, Inc.	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 York County Solid Waste and Refuse Authority	Generation Owner
Bruce, Susan	Rep'g Linde LLC	End User Customer
Bruce, Susan	Rep'g Letterkenny Industrial Development Authority	Electric Distributor
Bruce, Susan	Rep'g Praxair, Inc.	End User Customer
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 Air Products & Chemicals, Inc.	End User Customer
Bruce, Susan	Rep'g Gerdau Ameristeel Energy, Inc.	Other Supplier
Bruce, Susan	Rep'g Procter & Gamble Paper Products Company (The)	End User Customer
Bruce, Susan	Rep'g MeadWestvaco Corporation	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
Cox, Jason	Dynegy Marketing & Trade, LLC	Generation Owner
Czigler, Frank	Public Service Electric & Gas Company	Transmission Owner
Day, Jason	Oceanside Power LLC	Other Supplier
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ellison, Alan	Grays Ferry Cogeneration Partnership	Generation Owner
Evrard, David	Pennsylvania Office of Consumer Advocate	End User Customer
Fernandes, John	RES America Developments, Inc.	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 Church Hill Solar Farm, LLC	Generation Owner
Fuess, Jay	Rep'g Kuehne Chemical Company, Inc.	Other Supplier
Fuess, Jay	Rep'g Icetec.com, Inc.	Other Supplier
Fuess, Jay	Rep'g PBF Power Marketing LLC	Generation Owner
Fuess, Jay	Rep'g Diamond State Generation Partners, LLC	Generation Owner
Fuess, Jay	Rep'g Energy Consulting Services LLC	Other Supplier

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Garnett, Bryan Godson, Gloria Greening, Michele Griffiths. Dan Guerry, Katie Guerry, Katie Guistwhite. Jeff Hendrix. Chris Hoatson, Tom Horstmann, John Horton, Dana Jablonski, James Johnson, Carl Johnson, Carl Johnson, Carl Johnson, Carl Johnson, Carl Johnson, Carl Johnson, Carl

**Duke Energy Business Services LLC** Potomac Electric Power Company Talen Energy Marketing, LLC Rep'g Maryland Office of Peoples Counsel Rep'g Division of the Public Advocate of State of Delaware Rep'g Virginia Division of Consumer Counsel Rep'g Office of the Ohio Consumers' Counsel Rep'g Indiana Office of Utility Consumer Counsel Rep'g Office of the Attorney General, Kentucky Rep'g Ofc... People's Counsel ... District of Columbia Rep'g West Virginia Consumer Advocate Division Rep'g Pennsylvania Office of Consumer Advocate Rep'g New Jersey Div. of the Ratepayer Advocate Rep'g Illinois Citizens Utility Board Rep'g EnerNOC, Inc. Rep'g Direct Energy Business, LLC EnergyConnect, Inc. Texas Retail Energy, LLC West Deptford Energy, LLC Dayton Power and Light Company (The) Appalachian Power Company (AEP Generation) Rep'g Borough of Madison, New Jersey Rep'g Borough of Butler, Butler Electric Division Rep'g Borough of Pemberton Rep'g Borough of Lavallette, New Jersey Rep'g Vineland Municipal Electric Utility Rep'g Borough of Park Ridge, New Jersey Rep'g Borough of Milltown Rep'g Borough of South River, New Jersey Rep'g Borough of Seaside Heights, New Jersey Rep'g Allegheny Electric Cooperative, Inc. Rep'g Galt Power Inc. Rep'g Old Dominion Electric Cooperative Rep'g Blue Ridge Power Agency, Inc. Rep'g Central Virginia Electric Cooperative Rep'g Borough of Chambersburg (DTEET) Rep'g Delaware Municipal Electric Corporation

Transmission Owner Electric Distributor Generation Owner End User Customer Other Supplier Other Supplier Other Supplier Other Supplier Generation Owner Transmission Owner Transmission Owner Electric Distributor Other Supplier Electric Distributor Electric Distributor Electric Distributor Electric Distributor Electric Distributor



Johnson, Carl	Rep'g City of Dover, Delaware
Johnson, Carl	Rep'g Easton Utilities Commission
Johnson, Carl	Rep'g North Carolina Electric Membership Corporation
Johnson, Carl	Rep'g Indiana Municipal Power Agency
Johnson, Carl	Rep'g American Municipal Power, Inc.
Johnson, Carl	Rep'g Northern Virginia Electric Cooperative (NOVEC)
Johnson, Carl	Rep'g Illinois Municipal Electric Agency
Johnson, Carl	Rep'g Hagerstown Light Department
Johnson, Carl	Rep'g Mont Alto, PA (Borough of)
Johnson, Carl	Rep'g Thurmont Municipal Light Company
Johnson, Carl	Rep'g Williamsport, MD (Town of)
Johnson, Carl	Rep'g Energy Cooperative Association of PA
Johnson, Carl	Rep'g Madison Gas & Electric Company
Johnson, Carl	Rep'g North Carolina Municipal Power Agency # 1
Johnson, Carl	Rep'g WPPI Energy
Johnson, Carl	Rep'g Buckeye Power, Inc.
Kelly, Stephen	Brookfield Energy Marketing LP
Kogut, George	New York Power Authority
Levine, Jeffrey	GDF SUEZ Energy Marketing NA, Inc.
Lieberman, Steven	Old Dominion Electric Cooperative
Long, Scott	Allegheny Electric Cooperative, Inc.
Ma, Alex	Invenergy, LLC
Melnyk, Markian	Atlantic Grid Operations A, LLC
Merola, Becky	Noble Americas Gas & Power Corp.
Moerner, Lisa	Virginia Electric & Power Company
Norton, Chris	American Municipal Power, Inc.
O'Connell, Robert	PPGI Fund A/B Development, LLC
Peoples, John	Duquesne Light Company
Prokop, Brenda	ITC Mid-Atlantic Development LLC
Richardson, Frank (Chip)	PPL Electric Utilities Corp. dba PPL Utilities (LSE)
Riding, MQ	Essential Power Rock Springs, LLC
Rohrbach, John	Rep'g Wabash Valley Power Association, Inc.
Rohrbach, John	Rep'g Southern Maryland Electric Cooperative
Rushing, Nathan	CPV Maryland, LLC
Rutigliano, Tom	Rep'g Enerwise Global Technologies, Inc.
Rutigliano, Tom	Rep'g EMC Development Company, Inc.
Rutigliano, Tom	Rep'g Demansys Energy, LLC

Electric Distributor Electric Distributor Generation Owner Electric Distributor Other Supplier Other Supplier Other Supplier Other Supplier Electric Distributor Other Supplier Other Supplier Other Supplier Electric Distributor Electric Distributor Generation Owner Other Supplier Other Supplier Transmission Owner Electric Distributor Generation Owner Transmission Owner Other Supplier Transmission Owner Transmission Owner Electric Distributor Electric Distributor Generation Owner Other Supplier Other Supplier

Electric Distributor

Other Supplier



Rutigliano, Tom	Rep'g Achieving Equilibrium LLC	Other Supplier
Scarp, David	Calpine Energy Services, L.P.	Generation Owner
Sitaraman, Nicole	Ofc People's Counsel District of Columbia	End User Customer
Skucas, Ruta	Rep'g RJUMR Energy Partners Corp.	Other Supplier
Skucas, Ruta	Rep'g Property Endeavors, LLC	End User Customer
Skucas, Ruta	Rep'g Solea Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g Falcon Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g Greene Energy, LLC	Other Supplier
Skucas, Ruta	Rep'g Dufossat Capital I, LLC	Other Supplier
Skucas, Ruta	Rep'g Velocity American Energy Master I, LP	Other Supplier
Skucas, Ruta	Rep'g Yasmin Partners LLC	Other Supplier
Skucas, Ruta	Rep'g Liberty Hill Power LLC	Other Supplier
Skucas, Ruta	Rep'g Alphataraxia Palladium LLC	Other Supplier
Skucas, Ruta	Rep'g Monterey MA, LLC	Other Supplier
Skucas, Ruta	Rep'g Great Bay Energy I, LLC	Other Supplier
Skucas, Ruta	Rep'g Hexis Energy Trading, LLC	Other Supplier
Skucas, Ruta	Rep'g Apple Group LLC	Other Supplier
Skucas, Ruta	Rep'g Red Wolf Energy Trading, 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 E Minus LLC	Other Supplier
Skucas, Ruta	Rep'g Pure Energy, Inc.	Other Supplier
Skucas, Ruta	Rep'g Southard Energy Partners LLC	Other Supplier
Williams, Michael	Black Oak Energy, LLC	Other Supplier
Yu, Joel	Rockland Electric Company	Transmission Owner

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

Ainspan, Malcolm	Energy Curtailment Specialists, Inc.
Bainbridge, Thomas	FirstEnergy Solutions Corporation
Blair, Tom	Monitoring Analytics
Bloom, David	Baltimore Gas and Electric Company
Chen, Jennifer	NRDC/FERC Project
Chiulli, Peter	NextEra Energy Power Marketing, LLC
Christian, Adam	Red Wolf Energy Trading, LLC
Coffman-Smith, Andrew	SNL Energy
D'Alessandris, Lou	FirstEnergy Solutions Corporation

Other Supplier Transmission Owner Not Applicable Transmission Owner Not Applicable **Generation Owner** Other Supplier Not Applicable **Transmission Owner** 



DeLosa, Joseph Demuynck, Rene Dickson, Douglas Edmondson, Lucy Engle, Andrew Everngam, Scott Farber, John Feierabend, Rick Ferrell, Evan Filomena, Guy Fletcher, Blake Fort, Jim Gebolys, Debbie Gebre, Gebre Giles, Steven Goode, Cory Halay, Alina Hall, Walter Hanson, Mark Harmon, Mike Hayes, Patrick Hayik, Seth Hebert, Chris Heidorn, Richard Henry, Michelle Herel, Suzanne Hozempa, Lawrence Huntoon, Stephen James, Denise Janicki, Diane Johnson, Chris Jones, Edward Kaczanowski, Marek Kohl, Lauren Kopan, Owen Kueker, Daniel Kuzma, Jason

State of Delaware Public Service Commission New Jersey Board of Public Utilities New Jersey Board of Public Utilities North Carolina Utilities Commission XO Energy MA, LP The Federal Energy Regulatory Commission **Delaware Public Service Commission Dominion Virginia Power** FirstEnergy Solutions Corporation Customized Energy Solutions, Ltd.\* ETC Endure Energy, LLC Energy Authority, Inc. (The) Public Utilities Commission of Ohio Lantar Energy LLC Allegheny Electric Cooperative, Inc. Yes Energy LLC The Federal Energy Regulatory Commission Maryland Public Service Commission Illinois Commerce Commission Ameren Energy Marketing Company Union Electric Company d/b/a Ameren Missouri Monitoring Analytics, LLC Hazle Spindle, LLC **RTO** Insider FirstEnergy Solutions Corporation **RTO** Insider FirstEnergy Solutions Corporation Energy Counsel, LLP Dominion Energy Marketing, Inc. Boston Energy Trading and Marketing LLC DC Energy Monterey Enterprises, LLC Baltimore Gas and Electric Company Monterey Enterprises, LLC **Steel Producers** J-Power USA Perkins Coie

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



Lacy, Catharine Leimann, John Leonard, Ryan Logan, Sharon Mahoney, Julie Manning, James Mariam, Yohannes Martin, Valerie Marton, Dave Marzewski, Skyler McAdams, Julius McAlister, Lisa McLawhorn, James Mcrae, Todd Metzler, Jakob Mok, Alan O'Connor, Siobhan Ondayko, Brock Orlando, Jim Ozkan, Deniz Peters, James Pratzon, David Presthus, Tom Price, Mark Reeping, Robert Reuter, Rob Ricks, Michael Robson, Matt Russo, Michael Ryan, Patrick Sanada, Cristy Sasser, Jonathan

**Dominion Resources Dominion Virginia Power** Iberdrola Renewables, LLC The Federal Energy Regulatory Commission New York State Electric & Gas Corporation North Carolina Electric Membership Corporation Office of the Peoples Counsel for the District of Columbia The Federal Energy Regulatory Commission FirstEnergy Solutions Corporation Monitoring Analytics, LLC Red Wolf Energy Trading, LLC American Municipal Power, Inc. North Carolina Utilities Commission **Dynasty Power** Castleton Commodities Merchant Trading L.P. Duke Energy Business Services LLC The Energy Authority AEP Northern Indiana Public Service Company Atlantic Grid Operations A, LLC ITC Mid-Atlantic Development LLC GT Power Group American Electric Power DC Energy FirstEnergy Solutions Corporation Pepco Holdings Incorporated **Customized Energy Solutions** SESCO Enterprises LLC Monitoring Analytics, LLC Southard Energy Partners LLC New York ISO **Customized Energy Solutions** FirstEnergy Solutions Corporation Illinois Municipal Electric Agency EMC Development Company, Inc. Hydro Quebec

Not Applicable Not Applicable

Not Applicable Other Supplier Electric Distributor

Not Applicable

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

Shanker, Roy

Schum, Alice

Seelaus, Andrew

Schneider, Jonathan



Sillin, John Sprouse, Donald Staska, Stephanie Stubbe, Judy Tatum, Ed Taylor, Geoff Villatoro, Karen Vogel, Anne Walker, Jacquie Walker, Jennifer Wang, Tingting Weaver, David Webster, John Wellborn, Samir Wilhite, Chad Wilmoth, Emily Wilson, James Wisersky, Megan Wood, Gordon Xenopoulos, Damon York, Katherine Zhou, Yuan

The Federal Energy Regulatory Commission Superior Appalachian Pipeline **Apollo Energy Services** Duke Energy Business Services, Inc. Old Dominion Electric Cooperative Falcon Energy, LLC The Federal Energy Regulatory Commission American Electric Power Yes Energy LLC Exelon Business Services Company, LLC AEP Exelon Icetec.com, Inc. The Federal Energy Regulatory Commission FirstEnergy Solutions Corporation **Dominion Virginia Power** Wilson Energy Economics Madison Gas & Electric Company ETC Endure Energy, LLC Stone, Mattheis, Xenopoulos, & Brew, PC Tennessee Valley Authority (The) Castleton Commodities Merchant Trading L.P. Not Applicable Not Applicable Not Applicable **Generation Owner Electric Distributor** Other Supplier Not Applicable Transmission Owner Not Applicable Transmission Owner Transmission Owner Transmission Owner Other Supplier Not Applicable Transmission Owner Not Applicable Not Applicable Other Supplier Other Supplier Not Applicable Other Supplier 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
Bhavaraju, Murty	PJM Interconnection, LLC	Not Applicable
Boston, Terry	PJM Interconnection, LLC	Not Applicable
Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Bratspis, David	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
Burdis, Tim	PJM Interconnection, LLC	Not Applicable
Burlew, Jim	PJM Interconnection, LLC	Not Applicable
Church, Laura	PJM Interconnection, LLC	Not Applicable



Daugherty, Suzanne Dirani, Rami Dotter, Ray Driscoll, Mary Ellen Duane, Vince Egan, Amanda Endress, Eric Ennis, Brad Esterly, Teri Fabiano, Janell Fan, Zhenyu Ford, Adrien Foster, Denise Glazer, Craig Gledhill, Andrew Hauske, Thomas Hoang, Liem Holland, Risa Hsia, Eric Hugee, Jacqulynn Ike-Egbuonu, Chidiogo Keech, Adam Keech, Jason Kelley, Michael Kinsey, Jean Langbein, Pete LaRocque, Matthew Manion, Evelyn Martini, Danielle McGlynn, Paul McLaverty, Megan McNamara, Sean Mooney, Molly Nice, Ryan Ott, Andrew L. Phillips, Darlene Pilong, Chris

PJM Interconnection, LLC PJM Board of Managers PJM Interconnection, LLC Not Applicable Not Applicable



Quevada, Jason Robinson, Charles Rocha, Patricio Scott, Nicole Sechrist, Erin Shparber, Steve Sims, Mark Slusser, Jeff Snyder, Sue Stadelmeyer, Rebecca Stotesbury, Christina Swimm, Nora C. Tribulski, Jennifer Velasco, Cheryl Ward, Mike Weiss, Glenn

Author: D. A. Anders

PJM Interconnection, LLC PJM Board of Managers PJM Interconnection, LLC Not Applicable Not Applicable