

Markets and Reliability Committee  
The Chase Center on the Riverfront, Wilmington, DE  
January 25, 2018  
9:00 a.m. – 1:10 p.m. EPT

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

Ms. Suzanne Daugherty and Mr. Dave Anders welcomed the participants, and provided the antitrust and code of conduct announcements.

## Endorsements/Approvals (9:05-11:30)

### 1. Draft Minutes (9:05-9:10)

Minutes of the December 21, 2017 meeting of the Markets and Reliability Committee (MRC) were **approved** by acclamation with no objections or abstentions.

### 2. PJM Manuals (9:10-9:50)

- A. Ms. Sue Glatz presented proposed revisions to PJM Manual 14F: Competitive Planning Process and the Operating Agreement to incorporate changes regarding Cost Containment developed during the Special PC sessions. On behalf of LS Power, the Office of the People's Counsel for the District of Columbia, the Delaware Division of the Public Advocate, the Maryland Office of People's Counsel, the West Virginia Consumer Advocate Division of the Public Service Commission, the PJM Industrial Consumers Coalition, and AMP, Ms. Sharon Segner, LS Power, proposed and Mr. Erik Heinle, Office of the People's Counsel for the District of Columbia, seconded an alternate proposal extending cost containment provisions beyond initial construction related costs. Following discussion the main motion **failed** in a sector-weighted vote with 1.71 in favor. Ms. Tonja Wicks, Duquesne Light Company, moved and Ms. Adrien Ford, ODEC, seconded that a vote on the alternate motion be deferred to no later than the May 2018 MRC meeting, and to refer the issues surrounding cost containment to the Planning Committee to address the deficiencies identified in the presentation on the alternate motion, discuss the components of the PJM proposal, and other outstanding issues raised by stakeholders. The motion to defer was **approved** by acclamation with one objection and one abstention.
- B. Mr. Nicole Scott reviewed the proposed changes to Manual 38: Operations Planning.
- C. Mr. Mike Hoke reviewed the proposed changes to Manual 40: Training and Certification Requirements.

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

### 3. Gas Pipeline Contingencies (9:50-10:20)

Mr. Rich Brown presented a draft problem statement and issue charge to address costs associated with the operationalizing gas pipeline contingencies initiative. Following discussion, the proposed

problem statement and issue charge were **approved** by acclamation with no objections or abstentions.

4. RERRA Review of Energy Efficiency Participation (10:20-10:40)

Mr. Pete Langbein reviewed the Demand Response Subcommittee proposal for the RERRA review of Energy Efficiency resource participation in the Capacity Market. Following discussion, the proposed Tariff and Reliability Assurance Agreement revisions were **endorsed** by acclamation with one objection and 14 abstentions.

5. Capacity Construct / Public Policy Sr. Task Force (CCPPSTF) (10:40-11:30)

- A. Mr. Stu Bresler discussed a potential PJM recommendation to the PJM Board of Managers regarding FERC filing of a proposal related to the CCPPSTF scope, including a discussion of the updated PJM proposal.
- B. Dr. Joe Bowring provided an update on the proposed Tariff revisions associated with the MOPR-Ex proposal endorsed by the CCPPSTF. Mr. Bob O'Connell, Panda Power Group, moved and Ms. Bruce seconded a motion to defer voting on the main motion and alternate motion until completion of a vote on the PJM proposal. The motion to defer **passed** by acclamation with four objections and no abstentions. Mr. O'Connell moved, and Ms. Bruce seconded that the MRC vote on the PJM Capacity Re-Pricing Proposal as amended and published on January 16, 2018. The PJM proposal **failed** in a sector weighted vote with 1.07 in favor. Following discussion the proposed Tariff revisions associated with the MOPR-Ex proposal **failed** in a sector-weighted vote with 1.17 in favor. Ms. Adrien Ford, ODEC, proposed a friendly amendment to the alternate motion to modify the provisions related to the Public Entity Exemption. Ms. Ruth Ann Price, DE Division of the Public Advocate, and Mr. Steve Lieberman, AMP (the sponsors of the alternate motion), accepted the proposed amendment and therefore it was incorporated into the alternate motion. Mr. Bob O'Connell proposed a friendly amendment to add a new section 7Aiii as follows:

Public Power Entities formed for the purpose of circumventing the MOPR shall not be exempt.

Ms. Ruth Ann Price and Mr. Steve Lieberman accepted the proposed amendment and therefore it was incorporated into the alternate motion. Following discussion, the alternate proposed Tariff revisions **failed** in a sector-weighted vote with 3.02 in favor. Ms. Ruth Ann Price moved and Mr. Steve Lieberman seconded a second alternate motion comprising the alternate motion Tariff revisions as originally posted for this meeting (not including the two accepted friendly amendments in the first alternate motion). Following discussion, the alternate proposed Tariff revisions **failed** in a sector-weighted vote with 3.19 in favor.

## First Readings (11:30-12:30)

6. Tariff Revisions to address Overlapping Congestion (11:30-11:45)

Mr. Tim Horger presented proposed Tariff revisions to address overlapping congestion. The committee will be asked to endorse the proposed Tariff revisions at its next meeting.

## 7. Senior Task Force Charters (11:45-12:00)

- A. Ms. Becky Carroll presented a draft charter for the Summer-Only Demand Response Sr. Task Force (SODRSTF). The committee will be asked to approve the proposed charter revisions at its next meeting.
- B. This item was deferred to a future meeting.

## 8. PJM Manuals (12:00-12:30)

- A. Mr. Jeff McLaughlin presented proposed revisions to PJM Manual 2: Transmission Service Request. These changes correspond to Tariff revisions endorsed by the MRC at its December 21, 2017 meeting. The committee will be asked to endorse the manual revisions at its next meeting.
- B. Mr. Rami Dirani presented conforming revisions to Manual 11: Energy & Ancillary Services Market Operations to clarify the Energy Offer Verification process. The committee will be asked to endorse the manual revisions at its next meeting.
- C. Ms. Nicole Militello presented proposed revisions to Manual 12: Balancing Operations. The committee will be asked to endorse the manual revisions at its next meeting.
- D. Mr. Michael Herman presented proposed revisions to PJM Manual 14B: Regional Transmission Planning Process identified in its periodic review. The committee will be asked to endorse the manual revisions at its next meeting.
- E. Ms. Rebecca Stadelmeyer presented proposed revisions to Manual 14D: Generator Operational Requirements. The committee will be asked to endorse the manual revisions at its next meeting.
- F. Ms. Terri Esterly presented proposed revisions to Manual 18: PJM Capacity Market. The committee will be asked to endorse the manual revisions at its next meeting.

## Informational Updates (12:30-1:10)

### 9. FERC Docket AD18-07-000 (12:30-12:45)

Mr. Chris O'Hara discussed the recent FERC Order Terminating Rulemaking Proceeding, Initiating New Proceeding, and establishing Additional Procedures.

### 10. Cold Weather Operations (12:45-1:00)

Mr. Chris Piong provided a summary of operations during the extreme cold weather recently experienced in the PJM region.

### 11. Uplift Allocation to Up-to-Congestion (UTC) Transactions (1:10)

Mr. Stu Bresler discussed the recent FERC order on PJM's filing proposing an uplift allocation to UTC transactions and potential paths forward.

## Future Agenda Items (1:10)

No new future agenda items were identified.

## Future Meeting Dates

February 22, 2018	9:00 a.m.	Wilmington, DE
March 22, 2018	9:00 a.m.	Wilmington, DE
April 19, 2018	9:00 a.m.	Wilmington, DE
May 24, 2018	9:30 a.m.	Valley Forge, PA
June 21, 2018	9:00 a.m.	Wilmington, DE
July 26, 2018	9:00 a.m.	Wilmington, DE
August 23, 2018	9:00 a.m.	Valley Forge, PA
September 27, 2018	9:00 a.m.	Valley Forge, PA
October 25, 2018	9:00 a.m.	Wilmington, DE
December 6, 2018	9:00 a.m.	Wilmington, DE
December 20, 2018	9:30 a.m.	Valley Forge, PA

Author: D. A. Anders

Chair/Secretary			
Anders	David	PJM Interconnection	Not Applicable
Daugherty	Suzanne	PJM Interconnection	Not Applicable

Voting Participants			
Last Name	First Name	Company	Sector
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner
Bickerstaff	Dean	Hartree Partners L.P.	Generation Owner
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Bleiweis	Bruce	Perdisco Trading, LLC	Other Supplier
Borgatti	Michael	Covanta Energy Group, LLC	Generation Owner
Borgatti	Michael	Jersey Green Energy, LLC	Other Supplier
Borgatti	Michael	Longview Power, LLC	Generation Owner
Borgatti	Michael	Moxie Freedom LLC	Generation Owner
Borgatti	Michael	Newark Energy Center, LLC	Generation Owner
Borgatti	Michael	NextEra Energy Marketing, LLC	Generation Owner
Borgatti	Michael	York County Solid Waste and Refuse Authority	Generation Owner
Brodbeck	John	EDP Renewables North America, LLC	Generation Owner
Bruce	Susan	Air Products & Chemicals, Inc.	End User Customer
Bruce	Susan	ArcelorMittal USA LLC	End User Customer

Bruce	Susan	Gerdau Ameristeel Energy, Inc.	Other Supplier
Bruce	Susan	Industrial Energy Users-Ohio	Other Supplier
Bruce	Susan	Kimberly-Clark Corporation	Generation Owner
Bruce	Susan	Lehigh Portland Cement Company	End User Customer
Bruce	Susan	Letterkenny Industrial Development Authority - PA	Electric Distributor
Bruce	Susan	Linde, LLC	End User Customer
Bruce	Susan	MeadWestvaco Corporation	End User Customer
Bruce	Susan	Praxair, Inc.	End User Customer
Bruce	Susan	Procter & Gamble Paper Products Company (The)	Generation Owner
Bruce	Susan	Trustees of the University of Pennsylvania	End User Customer
Bruce	Susan	Wellsboro Electric Company	Electric Distributor
Bursaw	Chris	CP Energy Marketing (US) Inc.	Other Supplier
Campbell	Bruce	Enerwise Global Technologies, Inc.	Other Supplier
Campbell	Bruce	MidAtlantic Power Partners, LLC	Other Supplier
Carrier	Ron	Direct Energy Business	Generation Owner
Carrier	Ron	Direct Energy Business, LLC	Other Supplier
Crystle	Gil	UGI Development Company	Generation Owner
Davis	James	Virginia Electric & Power Company	Transmission Owner
Davis	James	Dominion Energy Marketing, Inc.	Generation Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Elkins	Brian	Greene Energy Northeast	Generation Owner
Ellison	Alan	Grays Ferry Cogeneration Partnership	Generation Owner
Evrard	David	Pennsylvania Office Of Consumer	End User Customer
Fitch	Neal	NRG Power Marketing, LLC	Generation Owner
Fondacci	Luis	North Carolina Electric Membership Corporation	Electric Distributor
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess	Jay	Diamond State Generation Partners, LLC	Generation Owner
Fuess	Jay	Icetec.com, Inc.	Other Supplier
Fuess	Jay	Kuehne Chemical Company, Inc.	Other Supplier
Fuess	Jay	PBF Power Marketing, LLC	Generation Owner
Gorman	Kevin	Highlands Energy Group	Generation Owner
Gorman	Kevin	The Highlands Energy Group, LLC	Other Supplier
Greening	Michele	PPL Electric Utilities	Transmission Owner
Greening	Michele	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Greiner	Gary	Public Service Electric & Gas Company	Transmission Owner
Hastings	David	Aspirity Energy, LLC	Other Supplier

Hastings	David	Mercuria Energy America, Inc.	Other Supplier
Hastings	David	MICS	Generation Owner
Hastings	David	Northstar Trading Ltd.	Other Supplier
Hastings	David	Saracen Energy East, L.P.	Other Supplier
Hastings	David	SESCO Enterprises, LLC	Other Supplier
Hastings	David	Solios Power Mid-Atlantic Trading, LLC	Other Supplier
Hastings	David	Tenaska Power Services Co.	Generation Owner
Helms	Joseph	Rainbow Energy Marketing Corporation	Other Supplier
Hoatson	Tom	Riverside Generating, LLC	Generation Owner
Hoatson	Tom	West Deptford Energy, LLC	Generation Owner
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Horton	Dana	Appalachian Power Company	Transmission Owner
Hurwich	Mark	Elliott Bay Energy Trading LLC	Generation Owner
Hyzinski	Thomas	Carroll County Energy LLC	Generation Owner
Hyzinski	Thomas	Dynegy Marketing and Trade, LLC	Generation Owner
Johnson	Carl	Allegheny Electric Cooperative, Inc.	Electric Distributor
Johnson	Carl	American Municipal Power, Inc.	Electric Distributor
Johnson	Carl	Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Borough of Chambersburg	Electric Distributor
Johnson	Carl	Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson	Carl	Buckeye Power, Inc.	Electric Distributor
Johnson	Carl	Central Virginia Electric Cooperative	Electric Distributor
Johnson	Carl	City of Dover, Delaware	Electric Distributor
Johnson	Carl	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	Easton Utilities Commission	Electric Distributor
Johnson	Carl	Energy Cooperative Association of Pennsylvania (The)	Other Supplier
Johnson	Carl	Galt Power, Inc.	Other Supplier
Johnson	Carl	Hagerstown Light Department	Electric Distributor
Johnson	Carl	Illinois Municipal Electric Agency	Electric Distributor
Johnson	Carl	Indiana Municipal Power Agency	Generation Owner
Johnson	Carl	Madison Gas & Electric Co.	Other Supplier
Johnson	Carl	North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	North Carolina Municipal Power Agency Number 1	Other Supplier
Johnson	Carl	Northern Illinois Municipal Power Agency	Electric Distributor
Johnson	Carl	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor

Johnson	Carl	Old Dominion Electric Cooperative	Electric Distributor
Johnson	Carl	Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Town of Williamsport (The)	Electric Distributor
Johnson	Carl	WPPI Energy	Other Supplier
Keenan	Matthew	Elwood Energy LLC	Generation Owner
Kelly	Stephen	Brookfield	Generation Owner
Kelly	Stephen	Brookfield Energy Marketing LP	Other Supplier
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Kogut	George	New York Power Authority	Other Supplier
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor
Lieberman	Steven	Borough of Butler, Butler Electric Division	Electric Distributor
Lieberman	Steven	Borough of Lavallette, New Jersey	Electric Distributor
Lieberman	Steven	Borough of Madison, New Jersey	Electric Distributor
Lieberman	Steven	Borough of Milltown, New Jersey	Electric Distributor
Lieberman	Steven	Borough of Park Ridge, New Jersey	Electric Distributor
Lieberman	Steven	Borough of Pemberton, New Jersey	Electric Distributor
Lieberman	Steven	Borough of Seaside Heights, New Jersey	Electric Distributor
Lieberman	Steven	Borough of South River, New Jersey	Electric Distributor
Lieberman	Steven	Vineland Municipal Electric Utility	Electric Distributor
Logsdon	Josh	EXion Energy	Generation Owner
Long	Scott	Allegheny Electric Cooperative	Electricity Distributor
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Melnyk	Markian	Atlantic Grid Operations A, LLC	Other Supplier
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
O'Connell	Robert	PPGI Fund A/B Development, LLC.	Generation Owner
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Pakula	Maggie	Invenergy, LLC	Generation Owner
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Pelletier	Eveline	HQUS	Generation Owner
Poulos	Greg	Consumer Protection and Advocate Division of the Tennessee Attorney General	End User Customer
Poulos	Greg	Delaware Division of the Public Advocate	End User Customer
Poulos	Greg	Illinois Citizen Utility Board	End User Customer
Poulos	Greg	Indiana Office of Utility Consumer Counselor (IN OUCC)	End User Customer
Poulos	Greg	Maryland Office of People's Counsel	End User Customer
Poulos	Greg	New Jersey Division of Rate Counsel	End User Customer
Poulos	Greg	North Carolina Utilities Commission	End User Customer
Poulos	Greg	Office of the Attorney General, Kentucky	End User Customer

Poulos	Greg	Office of the People's Counsel for the District of Columbia	End User Customer
Poulos	Greg	Ohio Consumers' Counsel	End User Customer
Poulos	Greg	Virginia Division of Consumer Counsel	End User Customer
Poulos	Greg	West Virginia Consumer Advocate Division	End User Customer
Pratzon	David	Eastern Generation, LLC	Generation Owner
Pratzon	David	Essential Power Rock Springs, LLC	Transmission Owner
Pratzon	David	Shell Energy North America (US), L.P.	Other Supplier
Pratzon	David	Twin Eagle Resource Management, LLC	Other Supplier
Pratzon	David	Wheelabrator Frackville Energy Co., Inc.	Generation Owner
Prokop	Brenda	ITC Interconnection LLC	Transmission Owner
Ramsey	James	Suffolk Fund	Generation Owner
Rohoback	John	Southern Maryland Electric Cooperative	Electricity Distributor
Rohrbach	John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rohrbach	John	Wabash Valley Power Association, Inc.	Electric Distributor
Rushing	Nathan	CPV Power Holdings L.P.	Generation Owner
Rushing	Nathan	CPV Power Holdings, LP	Generation Owner
Rushing	Nathan	Homer City Generation, L.P.	Generation Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Skucas	Ruta	Aeon Energy Trading LLC	Other Supplier
Skucas	Ruta	Alphataraxia Palladium LLC	Other Supplier
Skucas	Ruta	Ames Energy, LLC	Other Supplier
Skucas	Ruta	Big Bend Trading, LLC	Other Supplier
Skucas	Ruta	BJ Energy, LLC	Other Supplier
Skucas	Ruta	Boston Energy Group, Inc.	Other Supplier
Skucas	Ruta	Dufossat Capital I, LLC	Other Supplier
Skucas	Ruta	Endurance Energy Midwest LLC	Other Supplier
Skucas	Ruta	Energya VM Gestion de Energia S.L.U.	Other Supplier
Skucas	Ruta	Falcon Energy, LLC	Other Supplier
Skucas	Ruta	Great Bay Energy III, LLC	Other Supplier
Skucas	Ruta	Greene Energy NE LLC	Other Supplier
Skucas	Ruta	Hexis Energy Trading, LLC	Other Supplier
Skucas	Ruta	Liberty Hill Power, LLC	Other Supplier
Skucas	Ruta	MAG Energy Solutions, Inc.	Other Supplier
Skucas	Ruta	Monterey MA, LLC	Other Supplier
Skucas	Ruta	Precept Power LLC	Other Supplier
Skucas	Ruta	Pure Energy, Inc.	Other Supplier
Skucas	Ruta	Red Wolf Energy Trading, LLC	Other Supplier
Skucas	Ruta	Southard Energy Partners LLC	Other Supplier



Skucas	Ruta	Taller Cube, LLC	Other Supplier
Skucas	Ruta	Velocity American Energy Master I, L.P.	Other Supplier
Skucas	Ruta	XO Energy MA, L.P.	Other Supplier
Skucas	Ruta	Yasmin Partners LLC	Other Supplier
Sturgeon	John	Duke Energy	Generation Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Trayers	Barry	Citigroup Energy, Inc.	Other Supplier
Wadsworth	Joe	Vitol Inc.	Other Supplier
Whitehead	Jeffrey	EnerNOC, Inc.	Other Supplier
Wicks	Tonja	Duquesne Light Company	Transmission Owner
Wilkie	Brian	Rockland Electric Company	Transmission Owner
Wood	Gordon	ETC Endure Energy L.L.C.	Other Supplier
Chocarro	Iker	E.ON Climate Renewals	Generation Owner

## Non-Voting Participants

Last Name	First Name	Company	Sector
Ament	Todd	Cube Hydro Partners, LLC	Generation Owner
Anderson	Jared	Platts	Media
Baer	Mitchell	ACCCE	Not Applicable
Bagot	Nancy	Electric Power Supply Association	Not Applicable
Bainbridge	Tom	First Energy	Transmission Owner
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Bayless	Charles	NCEMC	Electric Distributor
Belmont	Caroline	P.A. Consulting	Not Applicable
Bloodworth	Michelle	ACCCE	Not Applicable
Bloom	David	Exelon Business Services Company, LLC	Transmission Owner
Bonner	Charles	Virginia Electric & Power Company	Transmission Owner
Bowring	Joe	Monitoring Analytics	Not Applicable
Brinkley	Nate	Greene Energy NE LLC	Other Supplier
Brown	David	NJ BPU	Not Applicable
Canter	David	Appalachian Power Company	Transmission Owner
Carmean	Gregory	OPSI	Not Applicable
Chandler	Kent	Kentucky Attorney Generals Office	Not Applicable
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Cockrell	Justin	VECO Power Trading	Other Supplier
Coffey	Cecelia	FERC	Not Applicable
Collins	Ryan	Wright & Talisman	Not Applicable
Conn	Jeff	Big Bend Trading, LLC	Other Supplier
Coppola	Ej	Greene Energy NE LLC	Other Supplier

Cox	Phil	Appalachain Power Company	Transmission Owner
Cox	William	EXion Energy	Generation Owner
Delosa	Joe	Delaware Public Service Commission	Not Applicable
Depillo	Ray	Public Service Electric & Gas Company	Transmission Owner
Dillon	Matthew	UGI Development Company	Generation Owner
Dolan	Ryan	American Municipal Power	Electric Distributor
Domian	Christin	Duquesne Light Company	Transmission Owner
Drom	Rick	Eckert Seamans	Not Applicable
Engleman	Michael	Engleman Fallon LLC	Not Applicable
Esposito	Patricia	A2A Energy	Not Applicable
Fields	William	Maryland Office of People's Counsel	End User Customer
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Foladare	Kenneth	Tangibl	Not Applicable
Fort	Jim	Energy Authority	Other Supplier
Foxan	Timothy	Osaka Gas USA	Not Applicable
Francoeur	Rene	Red Wolf Energy Trading, LLC	Other Supplier
Gebolys	Debbie	Public Utilities Commission Of Ohio	Not Applicable
Gibelli	Stephen	NextEra Energy Marketing	Generation Owner
Gilani	Rehan	ConEdison Energy	Other Supplier
Godson	Gloria	Exelon Business Services Company, LLC	Transmission Owner
Grau	Patrick	Dynegy	Generation Owner
Gusick	Tim	Eastern Generation, LLC	Generation Owner
Haas	Howard	Monitoring Analytics	Not Applicable
Hanser	Erick	Michigan Public Service Commission	Not Applicable
Harmon	Mike	Ameren	Other Supplier
Heinle	Frederick	Office of the People's Counsel for the District of Columbia	End User Customer
Heisey	Bradley	Generation Owner	Generation Owner
Hitch	George	Dominion Energy	Generation Owner
Holland	Cynthia	New Jersey Board Of Public Utilities	Not Applicable
Hollis	Gabriel	NextEra Energy Transmission	Other Supplier
Hudis	Gabriella	Gabel Associates	Not Applicable
Janicki	Diane	Boston Energy Trading And Marketing	Generation Owner
Jardot	Gina	Essential Power Rock Springs	Generation Owner
Jerecman	Joe	Calpine Energy Services, L.P.	Generation Owner
Jett	William	Duke Energy	Generation Owner
Johnston	David	Indiana Utility Regulatory Commission	Not Applicable
Jones	Ryan	Allegheny Electric Cooperative	Electricity Distributor
Kandic	Milan	Dynasty Power	
Kauffman	Brian	NRG Curtailment Solutions, Inc.	Other Supplier
Kinser	Cynthia	Tennessee Attorney General	Not Applicable

Knernschild	Jenjira	Old Dominion Electric Cooperative	Electric Distributor
Knies	Heather	LM Power	
Kormos	Mike	Exelon Business Services Company, LLC	Transmission Owner
Kothakpu	Rakesh	Imes Illinois Electrical	Not Applicable
Kresowik	Mark	Sierra Club	
Leasure	Jill	Keystone Conemaugh Project Office	Not Applicable
Liang-Nicol	Cecilia	FirstEnergy	
Logan	Sharon	FERC	N/A
Logan	Alan	Zion	
Logston	Sebastian	EXion Energy	Generation Owner
Lowe	Connie	Dominion Virginia Power	Not Applicable
Mabry	David	MWN	Not Applicable
Mariam	Yohannes	OPC-DC	Not Applicable
Marinelli	Richard	Public Service Electric & Gas Company	Transmission Owner
Martin	Valerie	FERC	Not Applicable
Martinez	Michael	ETC Endure Energy	Other Supplier
Marton	Dave	FirstEnergy Solutions Corp.	Transmission Owner
McAdams	Julius	Red Wolf Energy Trading, LLC	Other Supplier
Mcalister	Lisa	American Municipal Power	Electric Distributor
Mcrae	Todd	Dynasty Power	Other Supplier
Merola	Becky	Calpine Energy Services, L.P.	Generation Owner
Miller	John	CoMed	Transmission Owner
Moncayo	Jorge	FERC	Not Applicable
Moore	John	NRDC	Not Applicable
Murray	Kevin	IEU Ohio	Other Supplier
Nadel	Steven	PPL Electric Utilities	Transmission Owner
Nader	Jordan	RunnerStone LLC	Not Applicable
Nawaz	Zainab	New Jersey Board Of Public Utilities	Not Applicable
Olenick	Cory	Inertia Power	Other Supplier
Olinger	Robert	GenOps	Other Supplier
Ondayko	Brock	Appalachain Power Company	Transmission Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Philips	Marji	Direct Energy Business Marketing	Other Supplier
Price	Mark	DC Energy, LLC	Other Supplier
Price	Ruth Ann	Division of the Public Advocate of the State of Delaware	End User Customer
Rainey	Frank	PEI Power Corporation	Generation Owner
Reams	William	Allegheny Electric Cooperative	Electricity Distributor
Rismiller	Randy	Illinois Commerce Commission	Not Applicable
Robinson	Maria	Advanced Energy Economy	Not Applicable
Rothey	Kristin	American Municipal Power	Electric Distributor

Ruck	Andrew	Public Service Electric & Gas Company	Transmission Owner
Rutigliano	Tom	EMC	Other Supplier
Saini	Ishwar	Macquarie Energy	Other Supplier
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	None
Schneider	Jen	First Energy	Transmission Owner
Schreim	Morris	Maryland Public Service Commission	Not Applicable
Schum	Alice	Illinois Municipal Electric Agency	Electric Distributor
Sealaus	Tim	PMC Development Company	Other Supplier
Segner	Sharon	LS Power Transmission	Not Applicable
Shah	Pulin	Exelon Business Services Company, LLC	Transmission Owner
Shealy	Erin	GDS Associates	Not Applicable
Shelton	Chris	Dayton Power & Light Company	Generation Owner
Sillin	John	FERC	Not Applicable
Skucas	Ruta	Pierce Atwood	Not Applicable
Steele	Robert	Hyllgarth Energy	
Stern	Alexander	Public Service Electric & Gas Company	Transmission Owner
Stewart	Travis	Gable and Associates	Not Applicable
Stone	Andy	Gabel Associates	Not Applicable
Stover	James	PPL Electric Utilities	Transmission Owner
Stubbe	Judy	Duke Energy Business Services LLC	Transmission Owner
Stuchell	Jeff	FirstEnergy	Transmission Owner
Suh	Jung	Calpine Solutions	Other Supplier
Sweeney	Rory	RTO Insider	Media
Taylor	Robert	Exelon Business Services Company, LLC	Transmission Owner
Thomas	Glen	GT Power Group	Not Applicable
Thompson	Matthew	XO Energy	Other Supplier
Tibbetts	Maeve	Pierce Atwood	Not Applicable
Tsao	Stephanie	S&P Global	Media
Tyler	Catherine	Monitoring Analytics	Not Applicable
Vanderlaan	Bill	Illinois Commerce Commission	Not Applicable
VanSteel	James	Michigan Public Service Commission	Not Applicable
Vargo	Daniel	Allegheny Electric Cooperative	Electricity Distributor
Von	Frederico	NextEra	Generation Owner
Vu	John	NextEra	Generation Owner
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Walters	Joshua	NRDC	Not Applicable
Waskiewicz	Michael	Hartree Partners L.P.	Generation Owner
Weaver	David	Exelon Business Services Company, LLC	Transmission Owner
Wesley	Allen	Red Wolf Energy Trading, LLC	Other Supplier
Wilmoth	Emily	Virginia Electric & Power Company	Not Applicable
Wilson	Bram	PBF Power Marketing, LLC	Generation Owner

Wilson	James	Wilson Energy Economics	Not Applicable
Wisersky	Megan	Madison Gas & Electric Co.	Other Supplier
Wolfe	Alice	Blue Ridge Power Agency, Inc.	Electric Distributor
Xenopoulos	Damon	SMXB	Not Applicable
Yang	Ben	ONCEPT	

## PJM Participants

Last Name	First Name	Company	Sector
Anastasio	Elizabeth	PJM Interconnection	Not Applicable
Anders	David	PJM Interconnection	Not Applicable
Barrett	Francis	PJM Interconnection	Not Applicable
Berner	Aaron	PJM Interconnection	Not Applicable
Bhavaraju	Murty	PJM Interconnection	Not Applicable
Blackwell	Terry	PJM Interconnection Board of Managers	Not Applicable
Boyle	Glen	PJM Interconnection	Not Applicable
Bresler	Stu	PJM Interconnection	Not Applicable
Brown	Richard	PJM Interconnection	Not Applicable
Bruno	Joshua	PJM Interconnection	Not Applicable
Bruno	Patrick	PJM Interconnection	Not Applicable
Bryson	Mike	PJM Interconnection	Not Applicable
Buck	Rachel	PJM Interconnection	Not Applicable
Budney	David	PJM Interconnection	Not Applicable
Buehler	Susan	PJM Interconnection	Not Applicable
Burdis	Tim	PJM Interconnection	Not Applicable
Burlew	Jim	PJM Interconnection	Not Applicable
Carroll	Rebecca	PJM Interconnection	Not Applicable
Caven	Augustine	PJM Interconnection	Not Applicable
Chmielewski	Brian	PJM Interconnection	Not Applicable
Ciabattoni	Joseph	PJM Interconnection	Not Applicable
Connell	Jason	PJM Interconnection	Not Applicable
Coyne	Suzanne	PJM Interconnection	Not Applicable
Daugherty	Suzanne	PJM Interconnection	Not Applicable
Davis	Elizabeth	PJM Interconnection	Not Applicable
Dirani	Rami	PJM Interconnection	Not Applicable
Dolan	James	PJM Interconnection	Not Applicable
Dotter	Ray	PJM Interconnection	Not Applicable
Driscoll	Maryellen	PJM Interconnection	Not Applicable
Duane	Vince	PJM Interconnection	Not Applicable
Egan	Amanda	PJM Interconnection	Not Applicable

Endress	Eric	PJM Interconnection	Not Applicable
Esterly	Theresa	PJM Interconnection	Not Applicable
Fabiano	Janell	PJM Interconnection	Not Applicable
Falin	Thomas	PJM Interconnection	Not Applicable
Fitzpatrick	Brian	PJM Interconnection	Not Applicable
Flynn	Paul	PJM Interconnection	Not Applicable
Foley	Pauline	PJM Interconnection	Not Applicable
Foster	Denise	PJM Interconnection	Not Applicable
Franks	Ed	PJM Interconnection	Not Applicable
Freeman	Jennifer	PJM Interconnection	Not Applicable
Furnholm	Whitney	PJM Interconnection	Not Applicable
Glatz	Suzanne	PJM Interconnection	Not Applicable
Gledhill	Andrew	PJM Interconnection	Not Applicable
Handlin	Michael	PJM Interconnection	Not Applicable
Hauske	Thomas	PJM Interconnection	Not Applicable
Helm	Gary	PJM Interconnection	Not Applicable
Hendrzak	Chantal	PJM Interconnection	Not Applicable
Herling	Steve	PJM Interconnection	Not Applicable
Herman	Michael	PJM Interconnection	Not Applicable
Hoke	Michael	PJM Interconnection	Not Applicable
Horger	Tim	PJM Interconnection	Not Applicable
Hsia	Eric	PJM Interconnection	Not Applicable
Hugee	Jacquelynn	PJM Interconnection	Not Applicable
Keech	Adam	PJM Interconnection	Not Applicable
Kelley	Michael	PJM Interconnection	Not Applicable
Kenney	Susan	PJM Interconnection	Not Applicable
King	Kendra	PJM Interconnection	Not Applicable
Langbein	Pete	PJM Interconnection	Not Applicable
Larocque	Matthew	PJM Interconnection	Not Applicable
Long	Amanda	PJM Interconnection	Not Applicable
Lu	Chen	PJM Interconnection	Not Applicable
Manion	Evelyn	PJM Interconnection	Not Applicable
McGlynn	Paul	PJM Interconnection	Not Applicable
McLaughlin	Jeffrey	PJM Interconnection	Not Applicable
McLaverty	Megan	PJM Interconnection	Not Applicable
Militello	Nicole	PJM Interconnection	Not Applicable
Monzon	Stephanie	PJM Interconnection	Not Applicable
Nix	Emma	PJM Interconnection	Not Applicable
O'Hara	Chris	PJM Interconnection	Not Applicable
O'Neill	Jack	PJM Interconnection	Not Applicable
Ott	Andrew	PJM Interconnection	Not Applicable

Park	Jinny	PJM Interconnection	Not Applicable
Patel	Anita	PJM Interconnection	Not Applicable
Patel	Keyur	PJM Interconnection	Not Applicable
Perera	Asanga	PJM Interconnection	Not Applicable
Pilong	Melissa	PJM Interconnection	Not Applicable
Pilong	Chris	PJM Interconnection	Not Applicable
Pincus	Steven	PJM Interconnection	Not Applicable
Ritchie	Sandra	PJM Interconnection	Not Applicable
Robinson	Evelyn	PJM Interconnection	Not Applicable
Rocha-Garrido	Patricio	PJM Interconnection	Not Applicable
Rogers	Sarah	PJM Interconnection Board of Managers	Not Applicable
Scheidecker	Paul	PJM Interconnection	Not Applicable
Schmitt	Jeff	PJM Interconnection	Not Applicable
Schuyler	Ken	PJM Interconnection	Not Applicable
Schweizer	David	PJM Interconnection	Not Applicable
Scott	Nicole	PJM Interconnection	Not Applicable
Scweizer	David	PJM Interconnection	Not Applicable
Seiler	Ken	PJM Interconnection	Not Applicable
Slusser	Jeff	PJM Interconnection	Not Applicable
Souder	Dave	PJM Interconnection	Not Applicable
Souder	Michelle	PJM Interconnection	Not Applicable
Souder	Rich	PJM Interconnection	Not Applicable
Stadlmeyer	Rebecca	PJM Interconnection	Not Applicable
Stefanowicz	Vincent	PJM Interconnection	Not Applicable
Strella	Lauren	PJM Interconnection	Not Applicable
Swimm	Nora	PJM Interconnection	Not Applicable
Tacka	Natalie	PJM Interconnection	Not Applicable
Tribulski	Jen	PJM Interconnection	Not Applicable
Velasco	Cheryl	PJM Interconnection	Not Applicable
Walter	Laura	PJM Interconnection	Not Applicable
Ward	Michael	PJM Interconnection	Not Applicable
Williams	Stanley	PJM Interconnection	Not Applicable