

Markets and Reliability Committee
PJM Conference and Training Center, Valley Forge, PA
September 26, 2019
9:00 a.m. – 11:30 a.m. EPT

Administration

Ms. Denise Foster and Mr. Dave Anders welcomed stakeholders and provided the Anti-trust and Code of Conduct announcements.

Mr. Anders noted that PJM will be updating its current stakeholder email communication tool later this year. Stakeholders were asked to provide their IT departments the IP address, 13.111.63.217, to ensure members receive stakeholder communications from the new tool. If subscribers are unable to whitelist the IP address, please check the company spam folder to allow communications from “@lists.pjm.com”. Additional details regarding the tool update can be found under the Tech Change Forum.

Mr. Anders also noted that the PJM Stakeholder Survey will be open Monday, September 30, until Friday, October 11, and that the survey notifications will be sent using the new tool.

Ms. Foster noted the addition of agenda item 9 regarding an update on the 2022/2023 Base Residual Auction.

Consent Agenda

Items A, B, and C approved/endorsed by acclamation with no objections or abstentions.

- A. Minutes of the August 22, 2019 meeting of the Markets and Reliability Committee (MRC).
- B. Proposed revisions to Manual 11: Energy & Ancillary Services associated with regulation historical performance scores and reserve requirements.
- C. Proposed revisions to Manual 27: Open Access Transmission Tariff Accounting and Manual 28: Operating Agreement Accounting associated with settlements changes for Energy Storage Resource charging energy related to FERC Order 841 compliance filing.
[Issue Tracking: Electric Storage Participation - FERC Order 841](#)

Endorsements/Approvals

1. Non-Retail Behind the Meter Generation Business Rules

Ms. Terri Esterly reviewed proposed revisions to Manual 13: Emergency Operations and Manual 14D: Generator Operational Requirements as part of the clarification updates to the Non-Retail Behind the Meter Generation business rules. Specifically she noted updates to the proposed revisions to address concerns raised at the August 22, 2019 MRC meeting. These updates addressed:

- 1) excluding a generation facility that is dedicated to a retail end-use program that directly offsets retail charges (such as Community Solar or Aggregate Net Energy Metering resources) from being classified as Non-Retail BTMG,
- 2) providing all requested data on a Non-Retail BTMG template to the extent the LSE or EDC holds or after best efforts can obtain the requested data, and
- 3) clarifying the processes and EDC's role when there are multiple LSEs that serve load in a modeled EDC wholesale or multiple LSEs that serve load in the Rest of Zone.

Ms. Foster asked the committee if there were any objections to incorporating these updates into the proposed revisions. There were no objections, and therefore the updates were incorporated into the proposed revisions. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.

[Issue Tracking: Non-Retail Behind the Meter Generation Business Rules](#)

First Readings

2. Financial Risk Mitigation Senior Task Force (FRMSTF) Charter

Ms. Anita Patel presented revisions to the FRMSTF Charter document to adjust the completion of Key Work Activity 5 from the third quarter to the fourth quarter of 2019. Following discussion, the committee **approved** the proposed revision by acclamation with no objections or abstentions.

3. Load Management Testing Requirements

Mr. Pete Langbein provided an overview of the Load Management Test proposals endorsed by the Market Implementation Committee. Mr. Jack O'Neill discussed the main motion labeled as the PJM1a proposal. Mr. Brian Kauffman, Enel X North America, provided an overview of the alternate proposal labeled as the CSP2 proposal. The committee will be asked to endorse the proposed solution packages at its next meeting.

[Issue Tracking: Load Management Testing Requirements](#)

4. 2019 Installed Reserve Margin Study Results

Mr. Patricio Rocha Garrido reviewed the 2019 Reserve Requirement Study results (IRM, FPR). He noted that the analysis had been updated since presentation at the September 12, 2019 Planning Committee meeting to reflect withdrawn deactivations. The committee will be asked to endorse the study results at its next meeting.

5. PJM Manuals

- A. Ms. Maria Baptiste reviewed the proposed revisions to PJM Manual 03A: Energy Management System (EMS) Model Updates reflecting the periodic review of the manual. The committee will be asked to endorse the revisions at its next meeting.
- B. Mr. Vince Stefanowicz reviewed the proposed revisions to PJM Manual 14D: Generator Operational Requirements including a periodic cover to cover review and proposed language

changes regarding compliance with FERC Order 841 for energy storage participation. The committee will be asked to endorse the revisions at its next meeting.

[Issue Tracking: Electric Storage Participation - FERC Order 841](#)

- C. Ms. Laura Walter reviewed the proposed revisions to PJM Manual 36: System Restoration and PJM Manual 40: Training and Certification Requirements regarding FERC Order 841 for energy storage participation. The committee will be asked to endorse the revisions at its next meeting.

[Issue Tracking: Electric Storage Participation - FERC Order 841](#)

Informational Reports

6. Ms. Pauline Foley provided an update on Orders EL15-1387 and EL19-61 related to Form 715 RTEP Projects.
7. Mr. Pete Langbein provided a summary of the PJM's plan to resubmit a filing regarding Price Responsive Demand (PRD). He discussed FERC's rejection of the previous filing in dockets ER19-1012-000 and ER19-1012-001, noting that the rejection was based upon the methodology to calculate the PRD value. In resubmitting the filing, PJM will revise the calculation methodology consistent with the guidance FERC provided. He noted that, based on the FERC order, the governing documents and manual revisions posted for this meeting highlight in yellow changes from versions approved/endorsed at the December 2018 the MRC and MC meetings.
8. Mr. Andrew Levitt discussed PJM's contingency plan absent FERC action on Order 841: Electric Storage Participation in Regional Markets. He noted that PJM plans to submit a letter to alert the Commission that it will not actually implement the provisions of docket ER19-469 unless FERC timely issues an order accepting this part of its compliance filing.
9. Ms. Jennifer Tribulski provided an update on the 2022/2023 Base Residual Auction (BRA). She noted that PJM continues to await a FERC order on PJM's October 2018 proposal. Until PJM receives such order, all BRA and BRA pre-auction activities are suspended. This is in line with FERC's July 25, 2019 Order directing PJM not to run the BRA until FERC establishes the replacement rate. Once FERC issues an order, PJM will establish a time frame for implementing the BRAs for 1022/1023, 1023/2024 and beyond, as needed. She also noted that as PJM Interim president & CEO Sue Riley expressed in her September 12, 2019 letter to Multiple Parties, PJM will consult with the stakeholder community (which will include a concerted outreach to commissions within our region) to determine the appropriate actions following the issuance of an order from FERC.

Informational Postings Only

New Attachment M-4 to the PJM Tariff Solely Applicable to the Planning of CIP-014 Mitigation Projects

Notice of Transmission Owners Intent to File a New Attachment M-4 to the PJM Tariff Solely Applicable to the Planning of CIP-014 Mitigation Projects (CMPs) was posted with today's meeting materials. Stakeholders were encouraged to submit comments to

[Comments for Transmission Owners@pjm.com](mailto:Comments_for_Transmission_Owners@pjm.com) no later than Monday, September 30, 2019.

Future Agenda Items (11:30)

No additional future agenda items were identified.

Future Meeting Dates

October 31, 2019	9:00 a.m.	Valley Forge, PA
December 5, 2019	9:00 a.m.	Valley Forge, PA
December 19, 2019	9:00 a.m.	Valley Forge, PA

Author: D. Anders

Secretary/Facilitator

Last Name	First Name	Company	Sector
Anders	David	PJM Interconnection, LLC	None
Foster	Denise	PJM Interconnection, LLC	None

Voting Attendees

Last Name	First Name	Company	Sector
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Benчек	Jim	American Transmission Systems, Inc.	Transmission Owner
Bruce	Susan	Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	ArcelorMittal USA LLC	End-Use 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-Use Customer
Bruce	Susan	Letterkenny Industrial Development Authority - PA	Electric Distributor
Bruce	Susan	MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Messer LLC	End-Use Customer
Bruce	Susan	Praxair, Inc.	End-Use Customer
Bruce	Susan	Procter & Gamble Paper Products Company (The)	Generation Owner
Bruce	Susan	Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Wellsboro Electric Company	Electric Distributor
Canter	David	Appalachian Power Company	Transmission Owner
Carrier	Ron	Direct Energy Business, LLC	Other Supplier
Chandler	Kent	Office of the Attorney General, Kentucky	End-Use Customer
Davis	James	Virginia Electric & Power Company	Transmission Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fitch	Neal	NRG Power Marketing, LLC	Generation Owner
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Hastings	David	Northstar Trading Ltd.	Other Supplier

Last Name	First Name	Company	Sector
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
Hoatson	Tom	Renaissance Power & Gas, Inc.	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
Huang	James	Rockland Electric Company	Transmission Owner
Hyzinski	Thomas	Dynegy Marketing and Trade, LLC	Generation Owner
Hyzinski	Thomas	GenOn Energy Management, LLC	Generation Owner
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	Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Town of Williamsport (The)	Electric Distributor
Johnson	Carl	WPPI Energy	Other Supplier
Kauffman	Brian	Enel X North America, Inc.	Other Supplier
Keenan	Matthew	Elwood Energy, LLC	Generation Owner
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Kogut	George	New York Power Authority	Other Supplier
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor

Last Name	First Name	Company	Sector
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
O'Connell	Robert	PPGI Fund A/B Development, LLC.	Generation Owner
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Picardi	Matthew	Shell Energy North America (US), L.P.	Other Supplier
Poulos	Greg	Consumer Protection and Advocate Division of the Tennessee Attorney General	End-Use Customer
Poulos	Greg	Delaware Division of the Public Advocate	End-Use Customer
Poulos	Greg	Illinois Citizen Utility Board	End-Use Customer
Poulos	Greg	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Poulos	Greg	Maryland Office of People's Counsel	End-Use Customer
Poulos	Greg	Michigan Department of Attorney General, Environment, Natural Resources, & Agriculture Division	End-Use Customer
Poulos	Greg	New Jersey Division of Rate Counsel	End-Use Customer
Poulos	Greg	Office of the People's Counsel for the District of Columbia	End-Use Customer
Poulos	Greg	Ohio Consumers' Counsel	End-Use Customer
Poulos	Greg	Pennsylvania Office of Consumer Advocate	End-Use Customer
Poulos	Greg	Public Staff - North Carolina Utilities Commission	End-Use Customer
Poulos	Greg	Virginia Division of Consumer Counsel	End-Use Customer
Poulos	Greg	West Virginia Consumer Advocate Division	End-Use Customer
Rumsey	Amanda	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Vayda	Brian	Borough of Butler, Butler Electric Division	Electric Distributor
Vayda	Brian	Borough of Lavallette, New Jersey	Electric Distributor
Vayda	Brian	Borough of Madison, New Jersey	Electric Distributor
Vayda	Brian	Borough of Milltown, New Jersey	Electric Distributor
Vayda	Brian	Borough of Park Ridge, New Jersey	Electric Distributor
Vayda	Brian	Borough of Pemberton, New Jersey	Electric Distributor
Vayda	Brian	Borough of Seaside Heights, New Jersey	Electric Distributor
Vayda	Brian	Borough of South River, New Jersey	Electric Distributor
Vayda	Brian	Vineland Municipal Electric Utility	Electric Distributor
Whitehead	Jeffrey	Eastern Generation, LLC	Generation Owner
Whitehead	Jeffrey	Essential Power Rock Springs, LLC	Generation Owner
Whitehead	Jeffrey	Wheelabrator Frackville Energy Co., Inc.	Generation Owner
Wicks	Tonja	Duquesne Light Company	Transmission Owner

Non-Voting Attendees

Last Name	First Name	Company	Sector
Abdur-Rahman	Mushin	Enterprise Software	Not Applicable
Abend	Erik	EA Consulting	Not Applicable
Anderson	Jared	Platts	Not Applicable
Bainbridge	Thomas	FirstEnergy Solutions Corp.	Transmission Owner
Batta	Michael	Old Dominion Electric Cooperative	Electric Distributor
Bayless	Charlie	North Carolina Electric Membership Corporation	Electric Distributor
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Bockhorn	Tim	AES Energy Storage, LLC	Generation Owner
Branch	John	St. Joseph Energy Center, LLC	Generation Owner
Campbell	Bruce	Enerwise Global Technologies, LLC	Other Supplier
Carmean	Gregory	OPSI	Not Applicable
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chocarro	Iker	RWE Renewables Americas, LLC	Generation Owner
Christopher	Mahila	The Public Utilities Commission of Ohio	Not Applicable
Clair	Adrienne	Old Dominion Electric Cooperative	Electric Distributor
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Colbert	Cathleen	NRG Power Marketing, LLC	Generation Owner
Coultas	Ann	Invenergy, LLC	Generation Owner
Crystle	Gil	UGI Energy Services, LLC	Other Supplier
Currier	Jeff	Dominion Energy Generation Marketing, Inc.	Generation Owner
D'Alessandris	Lou	American Transmission Systems, Inc.	Transmission Owner
Dasher	Brett	Energy Authority, Inc. (The)	Other Supplier
DeLosa	Joseph	New Jersey Board of Public Utilities	Not Applicable
Dillon	Matthew	UGI Energy Services, LLC	Other Supplier
DiNicola	Laura	FirstEnergy Solutions Corp.	Transmission Owner
Domian	Christin	Duquesne Light Company	Transmission Owner
Duensing	Allison	Saracen Energy East, L.P.	Other Supplier
Ericson	Christine	Illinois Commerce Commission	Not Applicable
Evrard	David	Pennsylvania Office of Consumer Advocate	End-Use Customer
Fazio	Danielle	Engelhart CTP (US) LLC	Other Supplier
Feierabend	Richard	Dominion Energy Generation Marketing, Inc.	Generation Owner
Feller	John	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Foladare	Kenneth	Geenex Solar LLC	Generation Owner
Fuerst	Gary	FirstEnergy Solutions Corp.	Transmission Owner
Fuess	Christian	Whitepine Energy Consulting	Not Applicable
Garza	Mark	Infinity Energy	Not Applicable

Last Name	First Name	Company	Sector
Gebolys	Debra	The Public Utilities Commission of Ohio	Not Applicable
Gilani	Rehan	Consolidated Edison Company of New York, Inc.	Transmission Owner
Hanser	Erik	Michigan Public Service Commission	Not Applicable
Harmon	Michael	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Hastings	David	MICS	Not Applicable
Heinle	Frederick	Office of the People's Counsel for the District of Columbia	End-Use Customer
Hollis	Gabriel	NextEra Energy Marketing, LLC	Other Supplier
Horning	Lynn	Customized Energy Solutions, Ltd.*	Not Applicable
Horton	Dana	Appalachian Power Company	Transmission Owner
Hudis	Gabriella	Gabel Associates	Not Applicable
Janicki	Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Jardot	Gina	Essential Power Rock Springs, LLC	Generation Owner
Jha	Monica	Power Costs, Inc.	Not Applicable
Kelly	Stephen	Brookfield Energy Marketing LP	Other Supplier
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Knemtschield	Jenjira	Old Dominion Electric Cooperative	Electric Distributor
Koehler	Nicolas	AEP Energy, Inc.	Transmission Owner
Kozhuharov	Dimitar	Delaware Public Service Commission	Not Applicable
Lawson	Ryen	Dominion Energy Generation Marketing, Inc.	Generation Owner
Leasure	Jill	Keystone-Conemaugh Projects, LLC	Other Supplier
Liang-Nicol	Cecilia	FirstEnergy Solutions Corp.	Transmission Owner
Libbos	Robin	FirstEnergy Solutions Corp.	Transmission Owner
Logan	Sharon	The Federal Energy Regulatory Commission	Not Applicable
Lowe	Connie	Virginia Electric & Power Company	Transmission Owner
Mabry	David	McNees Wallace & Nurick LLC	Not Applicable
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	End-Use Customer
Markiewicz	Cindy	FirstEnergy Solutions Corp.	Transmission Owner
Matuszak	Anthony	UGI Energy Services, LLC	Other Supplier
Miller	John	Commonwealth Edison Company	Transmission Owner
Moncayo	Jorge	The Federal Energy Regulatory Commission	Not Applicable
Mooney	Jeff	FirstEnergy Solutions Corp.	Transmission Owner
Nadel	Steven	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Nallan	Dwarakesh	Daymark Energy Advisors	Not Applicable
O'Boyle	Brian	Rockland Electric Company	Transmission Owner
Ondayko	Brock A.	AEP Energy Partners, Inc.	Transmission Owner
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Peoples	John	Duquesne Light Company	Transmission Owner

Last Name	First Name	Company	Sector
Perrotti	Frank	Marathon Power LLC DBA Marathon Energy	Other Supplier
Philips	Marji	LS Power	Not Applicable
Poelstra	Tabitha	Appian Way Energy Partners MidAtlantic, LLC	Other Supplier
Powers	Sean	Messer LLC	End-Use Customer
Price	Ruth	Delaware Division of the Public Advocate	End-Use Customer
Rainey	Frank	PEI Power Corporation	Generation Owner
Reams	William	Allegheny Electric Cooperative, Inc.	Electric Distributor
Rismiller	Randy	Illinois Commerce Commission	Not Applicable
Robinson	Becky	Vistra Energy	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Schreim	Morris	Maryland Public Service Commission	Not Applicable
Schum	Alice	Illinois Municipal Electric Agency	Electric Distributor
Segner	Sharon	Silver Run Electric, LLC	Other Supplier
Shah	Pulin	Exelon Business Services Company, LLC	Transmission Owner
Shealy	Erin	GDS Associates	Not Applicable
Smith	Christen	RTO Insider	Not Applicable
Sotkiewicz	Paul	E-Cubed Policy Associates	Not Applicable
Squibb	William	Ohio Valley Electric Corporation	Transmission Owner
Stewart	Travis	Gabel Associates	Not Applicable
Stone	Andy	Gabel Associates	Not Applicable
Stuchell	Jeff	FirstEnergy Solutions Corp.	Transmission Owner
Sweeney	Rory	GT Power Group	Not Applicable
Tatum	Ed	American Municipal Power, Inc.	Electric Distributor
Taylor	Robert	Exelon Business Services Company, LLC	Transmission Owner
Thomas	Amber	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Thomas	Glen	GT Power Group	Not Applicable
Thompson	Matt	XO Energy MA, L.P.	Other Supplier
Toomey	Megan	Talen Energy Marketing, LLC	Generation Owner
VanderLaan	William	Illinois Commerce Commission	Not Applicable
Vargo	Daniel	Allegheny Electric Cooperative, Inc.	Electric Distributor
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Wilmoth	Emily	Dominion Energy Generation Marketing, Inc.	Generation Owner
Wilson	James	Wilson Energy Economics	Not Applicable
Wisersky	Megan	Madison Gas & Electric Co.	Other Supplier
Wynder	Michael	Nodal Exchange	Not Applicable

PJM Attendees

Last Name	First Name	Company	Sector
Barrett	Fran	PJM Interconnection LLC	Not Applicable
Berner	Aaron	PJM Interconnection LLC	Not Applicable
Keshavamurthy	Bhavana	PJM Interconnection LLC	Not Applicable
Anders	David	PJM Interconnection, LLC	Not Applicable
Baker	Scott	PJM Interconnection, LLC	Not Applicable
Baptiste	Maria	PJM Interconnection, LLC	Not Applicable
Baptiste	Maria	PJM Interconnection, LLC	Not Applicable
Beban	Madalyn	PJM Interconnection, LLC	Not Applicable
Bennett	Stephen	PJM Interconnection, LLC	Not Applicable
Bernstein	Matt	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	Joshua	PJM Interconnection, LLC	Not Applicable
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Buck	Rachel	PJM Interconnection, LLC	Not Applicable
Budney	David	PJM Interconnection, LLC	Not Applicable
Buehler	Susan	PJM Interconnection, LLC	Not Applicable
Burdis	Tim	PJM Interconnection, LLC	Not Applicable
Burlew	Jim	PJM Interconnection, LLC	Not Applicable
Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Chmielewski	Brian	PJM Interconnection, LLC	Not Applicable
Coyne	Suzanne	PJM Interconnection, LLC	Not Applicable
Croop	Danielle	PJM Interconnection, LLC	Not Applicable
D'Antonio	Phil	PJM Interconnection, LLC	Not Applicable
DeVita	Thomas	PJM Interconnection, LLC	Not Applicable
Dolan	James	PJM Interconnection, LLC	Not Applicable
Drauschak	Lisa	PJM Interconnection, LLC	Not Applicable
Duane	Vince	PJM Interconnection, LLC	Not Applicable
Egan	Amanda	PJM Interconnection, LLC	Not Applicable
Esterly	Theresa	PJM Interconnection, LLC	Not Applicable
Fabiano	Janell	PJM Interconnection, LLC	Not Applicable
Falin	Tom	PJM Interconnection, LLC	Not Applicable
Fan	Zhenyu	PJM Interconnection, LLC	Not Applicable
Fitzpatrick	Brian	PJM Interconnection, LLC	Not Applicable
Foley	Pauline	PJM Interconnection, LLC	Not Applicable
Glatz	Suzanne	PJM Interconnection, LLC	Not Applicable

Last Name	First Name	Company	Sector
Glazer	Craig	PJM Interconnection, LLC	Not Applicable
Gledhill	Andrew	PJM Interconnection, LLC	Not Applicable
Glennon	James	PJM Interconnection, LLC	Not Applicable
Gluck	Jim	PJM Interconnection, LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Haque	Asim	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Herel	Suzanne	PJM Interconnection, LLC	Not Applicable
Herling	Steve	PJM Interconnection, LLC	Not Applicable
Hoey	Edward	PJM Interconnection, LLC	Not Applicable
Holter	Natasha	PJM Interconnection, LLC	Not Applicable
Horger	Tim	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Keech	Adam	PJM Interconnection, LLC	Not Applicable
Keegan	John	PJM Interconnection, LLC	Not Applicable
LaRocque	Matthew	PJM Interconnection, LLC	Not Applicable
Langbein	Pete	PJM Interconnection, LLC	Not Applicable
Lu	Chen	PJM Interconnection, LLC	Not Applicable
McElwaine	Kathleen	PJM Interconnection, LLC	Not Applicable
McGill	Susan	PJM Interconnection, LLC	Not Applicable
McGlynn	Paul	PJM Interconnection, LLC	Not Applicable
McGovern	Jason	PJM Interconnection, LLC	Not Applicable
McLavery	Megan	PJM Interconnection, LLC	Not Applicable
Monzon	Stephanie	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
O'Hara	Chris	PJM Interconnection, LLC	Not Applicable
O'Neill	Jack	PJM Interconnection, LLC	Not Applicable
Olaley	Michael	PJM Interconnection, LLC	Not Applicable
Patel	Keyur	PJM Interconnection, LLC	Not Applicable
Patel	Anita	PJM Interconnection, LLC	Not Applicable
Phillips	Darlene	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Pincus	Steve	PJM Interconnection, LLC	Not Applicable
Quevada	Jason	PJM Interconnection, LLC	Not Applicable
Riley	Susan	PJM Interconnection, LLC	Not Applicable

Last Name	First Name	Company	Sector
Rocha-Garrido	Patricio	PJM Interconnection, LLC	Not Applicable
Salmon	Lisa	PJM Interconnection, LLC	Not Applicable
Scheidecker	Paul	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
Seiler	Ken	PJM Interconnection, LLC	Not Applicable
Shields	Jeffrey	PJM Interconnection, LLC	Not Applicable
Sims	Mark	PJM Interconnection, LLC	Not Applicable
Smith	Neil	PJM Interconnection, LLC	Not Applicable
Souder	Michelle	PJM Interconnection, LLC	Not Applicable
Souder	Dave	PJM Interconnection, LLC	Not Applicable
Stefanowicz	Vince	PJM Interconnection, LLC	Not Applicable
Stotesbury	Christina	PJM Interconnection, LLC	Not Applicable
Swimm	Nora	PJM Interconnection, LLC	Not Applicable
Takahasi	Mark	PJM Interconnection, LLC	Not Applicable
Tribulski	Jen	PJM Interconnection, LLC	Not Applicable
Velasco	Cheryl Mae	PJM Interconnection, LLC	Not Applicable
Walter	Laura	PJM Interconnection, LLC	Not Applicable
Ward	Mike	PJM Interconnection, LLC	Not Applicable
Williams	Stan	PJM Interconnection, LLC	Not Applicable