

Markets and Reliability Committee
PJM Conference and Training Center, Valley Forge, PA
October 31, 2019
9:00 a.m. – 12:45 p.m. EPT

Administration

Mr. Stu Bresler and Mr. Dave Anders welcomed stakeholders.

Mr. Chuck Dugan, EKPC and Members Committee (MC) Chair, and Mr. Steve Lieberman, AMP and MC Vice Chair, recognized Ms. Denise Foster, PJM Vice President, State and Member Services, on the occasion of her departure from PJM. On behalf of the Members, Mr. Dugan and Mr. Lieberman thanked Ms. Foster for her service to the Members and wished her well in future endeavors.

Mr. Bresler echoed the remarks of Mr. Dugan and Mr. Lieberman, noting Ms. Foster's many contributions to PJM and likewise extending best wishes in the future.

Mr. Anders provided the Anti-trust and Code of Conduct announcements and 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 add the IP address to their list of approved senders, they should 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.

Consent Agenda

Items A, through D were **approved/endorsed** by acclamation with no objections or abstentions.

- A. Minutes of the September 26, 2019 meeting of the Markets and Reliability Committee (MRC).
- B. 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.
[Issue Tracking: Electric Storage Participation - FERC Order 841](#)
- C. Proposed changes to PJM Manual 36: System Restoration and PJM Manual 40: Training and Certification Requirements regarding FERC Order 841 for energy storage participation.
[Issue Tracking: Electric Storage Participation - FERC Order 841](#)
- D. The 2019 Reserve Requirement Study results (IRM, FPR).

Endorsements/Approvals (9:15-9:30)

1. Load Management Testing Requirements

Mr. Pete Langbein provided a review of the Load Management Test proposals endorsed by the Market Implementation Committee. He discussed development of proposed friendly amendments that resolve

differences between the proposed solutions. Ms. Susan Bruce proposed the following friendly amendments:

- Change Tier 1 notification from month ahead to 2 weeks ahead (by Monday or first business day prior to start of test period):
 - No changes to Tier 2 (day ahead) and Tier 3 (test day lead time)
- Timing of request for Retest if CSP has issue (delivers less than 75% of the committed MWs) with the Test:
 - First Read version - PJM directed retest upon CSP request before the end of month after the test.
 - CSP given 30 to 60 days after to test to request retest, as needed.
 - Modified version - PJM directed retest upon CSP request before the 46th day after the test.

There were no objections to these proposed friendly amendments, and therefore they were incorporated into the main motion. Following discussion, the main motion was **endorsed** by acclamation with one objection and one abstention.

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

First Readings

2. Transmission Asset End of Life Problem Statement and Issue Charge

Mr. Ed Tatum, American Municipal Power, presented a proposed Problem Statement and Issue Charge addressing transmission asset end of life processes. The committee will be asked to approve the proposed issue charge at its next meeting.

3. Gas Contingency Operations

Mr. Christopher Pulong reviewed proposed revisions to PJM Manual 3: Transmission Operations and PJM Manual 13: Emergency Operations regarding gas contingency operations. The committee was asked to endorse the revisions upon first read, and there were no objections. Following discussion, the committee **endorsed** the proposed manual revisions by acclamation with no objections or abstentions.

[Issue Tracking: Gas Pipeline Contingencies](#)

4. Transmission Owner Data Sharing for Reliability Studies

Mr. Jordan Shenk presented proposed Operating Agreement (OA) revisions clarifying the requirements for sharing forecasted unit commitment data with Transmission Owners for reliability studies. The committee will be asked to endorse these changes at its next meeting.

5. Competitive Transmission Proposal Fee

Mr. Mark Sims reviewed OA revisions implementing changes to the competitive transmission proposal fee structure. The committee will be asked to endorse these changes at its next meeting.

6. FTR Product Range and Auction Process

Mr. Brian Chmielewski reviewed proposed OA and Manual 6: Financial Transmission Rights revisions related to the Financial Risk Mitigation Senior Task Force (FRMSTF) endorsed solution package for FTR Product Range and Auction Process. The committee will be asked to endorse the revisions at its next meeting.

7. Modeling Generation Senior Task Force (MGSTF) (11:15-11:30)

Mr. Stan Williams provided an overview of the Modeling Generation Senior Task Force recommended long-term implementation plan with near-term implementation proposals. The committee will be asked to endorse the proposed solution packages at its next meeting.

8. Opportunity Cost Calculator (11:30-11:55)

Mr. Glen Boyle provided an overview of the Opportunity Cost Calculator proposals as endorsed by the Market Implementation Committee. The committee will be asked to endorse the proposed solution packages at its next meeting.

[Issue Tracking: Opportunity Cost Calculator](#)

9. PJM Manuals

- A. Mr. Lagy Mathew reviewed proposed revisions to PJM Manual 3: Transmission Operations resulting from the bi-annual review to update operating procedures. The committee will be asked to endorse the revisions at its next meeting.
- B. Mr. David Kimmel reviewed proposed changes to the 2020 Day Ahead Scheduling Reserve (DASR) requirement. The final 2020 DASR value will be incorporated into PJM Manual 13: Emergency Operations. The committee will be asked to endorse the revisions at its next meeting.
- C. Mr. Vince Stefanowicz reviewed proposed revisions to PJM Manual 14D: Generator Operational Requirements to add guidance associated with Distributed Energy Resource ride-through. The committee will be asked to endorse the revisions at its next meeting.
- D. Mr. Mark Sims reviewed the Comparative Cost Framework proposed revisions to PJM Manual 14F: Competitive Planning Process related to the cost commitment process. Dr. Joe Bowring, Monitoring Analytics, discussed perspectives of the Independent Market Monitor. The committee will be asked to endorse the revisions at its next meeting.
- E. Mr. Thomas Hauske reviewed conforming revisions to Manual 15: Cost Development Guidelines consistent with the May 10, 2019 VOM Compliance Filing that was recently accepted by FERC. The committee will be asked to endorse the manual revisions at its next meeting.
- F. Mr. Pat Bruno reviewed conforming revisions to Manual 18: PJM Capacity Market related to the recent FERC Order (ER19-2417) on RPM must-offer exceptions and removal of Capacity Resource status. The committee will be asked to endorse the revisions at its next meeting.

- G. Mr. John Reynolds presented revisions to PJM Manual 19 related to a periodic review and forecast documentation. The committee will be asked to endorse the revisions at its next meeting.

Informational Reports (12:25-12:45)

10. FERC Order EL08-14 (12:25-12:35)

Mr. Stan Williams provided an update on PJM's plans to move forward in response to FERC Order EL08-14 related to Marginal Line Loss.

11. Governing Document Enhancement and Clarifications Updates (12:35-12:45)

Mr. Mark J. Stanisz provided a review of non-substantive changes to standardize governing document cross-references in the Tariff, Operating Agreement and RAA. Following consultation with the GDECS, this committee and the Members Committee may be asked to endorse/approve these changes at the December 5, 2019 meetings.

Informational Postings Only

None

Future Agenda Items (12:45)

No additional future agenda items were identified.

Future Meeting Dates

December 5, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx
December 19, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx

Author: D. Anders

Attendance

Secretary/Facilitator

Last Name	First Name	Company	Sector
Anders	David	PJM Interconnection, LLC	None
Bresler	Stu	PJM Interconnection, LLC	None

Voting Attendees

Last Name	First Name	Company	Sector
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner
Brodbeck	John	EDP Renewables North America, LLC	Generation Owner
Bruce	Susan	Rep.'g Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	Rep.'g ArcelorMittal USA LLC	End-Use 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-Use Customer
Bruce	Susan	Rep.'g Letterkenny Industrial Development Authority - PA	Electric Distributor

Last Name	First Name	Company	Sector
Bruce	Susan	Rep.'g MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Rep.'g Messer LLC	End-Use Customer
Bruce	Susan	Rep.'g Praxair, Inc.	End-Use Customer
Bruce	Susan	Rep.'g Procter & Gamble Paper Products Company (The)	Generation Owner
Bruce	Susan	Rep.'g Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Rep.'g Wellsboro Electric Company	Electric Distributor
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
Gorman	Kevin	The Highlands Energy Group, LLC	Other Supplier
Greiner	Gary	Public Service Electric & Gas Company	Transmission Owner
Hastings	David	Rep.'g Northstar Trading Ltd.	Other Supplier
Hastings	David	Rep.'g Saracen Energy East, L.P.	Other Supplier
Hastings	David	Rep.'g SESCO Enterprises, LLC	Other Supplier
Hastings	David	Rep.'g 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
Hyzinski	Thomas	Rep.'g Dynegy Marketing and Trade, LLC	Generation Owner
Hyzinski	Thomas	Rep.'g GenOn Energy Management, LLC	Generation Owner
Johnson	Carl	Rep.'g Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Rep.'g Borough of Chambersburg	Electric Distributor
Johnson	Carl	Rep.'g Borough of Mont Alto, Pennsylvania	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, Inc.	Electric Distributor
Johnson	Carl	Rep.'g Easton Utilities Commission	Electric Distributor
Johnson	Carl	Rep.'g Energy Cooperative Association of Pennsylvania (The)	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 Co.	Other Supplier
Johnson	Carl	Rep.'g North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	Rep.'g North Carolina Municipal Power Agency Number 1	Other Supplier
Johnson	Carl	Rep.'g Northern Illinois Municipal Power Agency	Electric Distributor
Johnson	Carl	Rep.'g Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson	Carl	Rep.'g Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Rep.'g Town of Williamsport (The)	Electric Distributor

Last Name	First Name	Company	Sector
Johnson	Carl	Rep.'g WPPI Energy	Other Supplier
Keenan	Matthew	Elwood Energy, LLC	Generation Owner
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Midgley	Sharon	Rep.'g Virginia Electric & Power Company	Transmission Owner
O'Boyle	Brian	Rockland Electric Company	Transmission Owner
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Thomas	Amber	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Vayda	Brian	Rep.'g Borough of Butler, Butler Electric Division	Electric Distributor
Vayda	Brian	Rep.'g Borough of Lavallette, New Jersey	Electric Distributor
Vayda	Brian	Rep.'g Borough of Madison, New Jersey	Electric Distributor
Vayda	Brian	Rep.'g Borough of Milltown, New Jersey	Electric Distributor
Vayda	Brian	Rep.'g Borough of Park Ridge, New Jersey	Electric Distributor
Vayda	Brian	Rep.'g Borough of Pemberton, New Jersey	Electric Distributor
Vayda	Brian	Rep.'g Borough of Seaside Heights, New Jersey	Electric Distributor
Vayda	Brian	Rep.'g Borough of South River, New Jersey	Electric Distributor
Vayda	Brian	Rep.'g Vineland Municipal Electric Utility	Electric Distributor
Wadsworth	Joe	Vitol Inc.	Other Supplier
Whitehead	Jeffrey	Rep.'g Direct Energy Business, LLC	Other Supplier
Whitehead	Jeffrey	Rep.'g Eastern Generation, LLC	Generation Owner
Whitehead	Jeffrey	Rep.'g Essential Power Rock Springs, LLC	Generation Owner
Whitehead	Jeffrey	Rep.'g 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	ABB Network Management	None
Abend	Erik	EA Consulting	None
Anderson	Jared	Platts	None
Bainbridge	Thomas	FirstEnergy Solutions Corp.	Transmission Owner
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Bockhorn	Tim	AES ES Holdings, LLC	Generation Owner
Bowring	Joe	Monitoring Analytics	None
Branch	John	St. Joseph Energy Center, LLC	Generation Owner
Campbell	Bruce	Enerwise Global Technologies, LLC	Other Supplier

Last Name	First Name	Company	Sector
Carrado	Regina	Exelon Business Services Company, LLC	Transmission Owner
Carrier	Ron	Direct Energy Business Marketing, LLC	Other Supplier
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chocarro	Iker	RWE Renewables Americas, LLC	Generation Owner
Christopher	Mahila	Public Utilities Commission of Ohio	None
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Coffey	Cecelia	The Federal Energy Regulatory Commission	None
Colbert	Cathleen	NRG Power Marketing, LLC	Generation Owner
Coultas	Ann	Invenergy, LLC	Generation Owner
Crystle	Gil	UGI Energy Services, LLC	Other Supplier
Dadourian	John	Monitoring Analytics	None
D'Alessandris	Lou	FirstEnergy Solutions Corp.	Transmission Owner
Dasher	Brett	Energy Authority, Inc. (The)	Other Supplier
Davis	James	Dominion Energy Generation Marketing, Inc.	Generation Owner
DeLosa	Joseph	New Jersey Board of Public Utilities	None
DePillo	Raymond	Public Service Electric & Gas Company	Transmission Owner
Dillon	Matthew	UGI Development Company	Generation Owner
DiNicola	Laura	FirstEnergy Solutions Corp.	Transmission Owner
Dolan	Ryan	American Municipal Power, Inc.	Electric Distributor
Domian	Christin	Duquesne Light Company	Transmission Owner
Duensing	Allison	Saracen Energy East, L.P.	Other Supplier
Evergam	Scott	Blue Horseshoe Energy LLC	None
Evrard	David	Pennsylvania Office of Consumer Advocate	End-Use Customer
Fazio	Danielle	Engelhart CTP (US) LLC	Other Supplier
Feller	John	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.*	None
Foladare	Kenneth	Geenex Solar LLC	Generation Owner
Fuerst	Gary	FirstEnergy Solutions Corp.	Transmission Owner
Fuess	Christian	PBF Power Marketing, LLC	Generation Owner
Gahimer	Michael	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Gilani	Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Godson	Gloria	Upright Energy	None
Guy	Gary	Exelon Business Services Company, LLC	Transmission Owner
Halay	Alina	The Federal Energy Regulatory Commission	None
Hanser	Erik	Michigan Public Service Commission	None
Harmon	Michael	Union Electric Company d/b/a Ameren Missouri	Other Supplier
Heinle	Frederick	Office of the People's Counsel for the District of Columbia	End-Use Customer

Last Name	First Name	Company	Sector
Helms	Joseph	Rainbow Energy Marketing Corporation	Other Supplier
Hollis	Gabriel	NextEra Energy Marketing, LLC	Other Supplier
Horning	Lynn	Customized Energy Solutions, Ltd.*	None
Horton	Dana	Appalachian Power Company	Transmission Owner
Huang	Jame	Rockland Electric Company	Transmission Owner
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Huntoon	Steve	Chesapeake Transmission LLC	Other Supplier
Hurwich	Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Hyatt	John	Monitoring Analytics	None
Jett	William	Duke Energy Business Services LLC	Transmission Owner
Jha	Monica	Power Costs, Inc.	None
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
King	Matt	GDS Associates	None
Kogut	George	New York Power Authority	Other Supplier
Kozhuharov	Dimitar	Delaware Public Service Commission	None
Kuhn	Tyler	Citadel FNGE Ltd.	Other Supplier
Laios	Takis	Appalachian Power Company	Transmission Owner
Lawson	Ryen	Dominion Energy Generation Marketing, Inc.	Generation Owner
Logan	Sharon	The Federal Energy Regulatory Commission	None
Martin	Valerie	The Federal Energy Regulatory Commission	None
Marzewski	Skyler	Monitoring Analytics	None
Matuszak	Anthony	UGI Energy Services, LLC	Other Supplier
McAlister	Lisa	American Municipal Power, Inc.	Electric Distributor
McNeil	Justin	Office of the Attorney General, Kentucky	End-Use Customer
Meadors	Amanda	Duke Energy Business Services LLC	Transmission Owner
Miller	John	Commonwealth Edison Company	Transmission Owner
Mok	Alan	Duke Energy Business Services LLC	Transmission Owner
Nadel	Steven	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
O'Connell	Robert	PPGI Fund A/B Development, LLC.	Generation 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
Phillips	Jennifer	Big Sandy Peaker Plant, LLC	Generation Owner
Poelstra	Tabitha	Appian Way Energy Partners MidAtlantic, LLC	Other Supplier
Poulos	Greg	CAPS	None
Powers	Sean	Messer Energy Services, Inc.	End-Use Customer
Price	Ruth	Delaware Division of the Public Advocate	End-Use Customer

Last Name	First Name	Company	Sector
Raghavan	Vijay	BioUrja Power, LLC	Other Supplier
Rainey	Frank	PEI Power Corporation	Generation Owner
Rajan	Abhijit	Dominion Energy Generation Marketing, Inc.	Generation Owner
Reams	William	Allegheny Electric Cooperative, Inc.	Electric Distributor
Robichaud	Donna	Geenex Solar LLC	Generation Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	None
Schreim	Morris	Maryland Public Service Commission	None
Schum	Alice	Illinois Municipal Electric Agency	Electric Distributor
Segner	Sharon	West Deptford Energy, LLC	Generation Owner
Shah	Pulin	Exelon Business Services Company, LLC	Transmission Owner
Shanker	Roy	East Coast Power & Gas of New Jersey, LLC	Other Supplier
Shealy	Erin	GDS Associates	None
Sillin	John	The Federal Energy Regulatory Commission	None
Smith	Christen	RTO Insider	None
Sotkiewicz	Paul	E-Cubed Policy Advisors	None
Squibb	William	Ohio Valley Electric Corporation	Transmission Owner
Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Stone	Andy	Gabel Associates	None
Stuchell	Jeff	FirstEnergy Solutions Corp.	Transmission Owner
Sweeney	Rory	GT Power Group	None
Tatum	Ed	American Municipal Power, Inc.	Electric Distributor
Taylor	Robert	Exelon Business Services Company, LLC	Transmission Owner
Thompson	Matt	XO Energy MA, L.P.	Other Supplier
Tibbetts	Maeve	Pierce Atwood	None
Toomey	Megan	Talen Energy Marketing, LLC	Generation Owner
Vargo	Daniel	Allegheny Electric Cooperative, Inc.	Electric Distributor
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Weeks	Tom	Michigan Public Power Agency	Generation Owner
Wehnes	Kathleen	Maryland Department of the Environment	None
Wilmoth	Emily	Dominion Energy Generation Marketing, Inc.	Generation Owner
Wilson	James	Wilson Energy Economics	None
Wisersky	Megan	Madison Gas & Electric Co.	Other Supplier
Wood	Gordon	ETC Endure Energy L.L.C.	Other Supplier
Wynder	Michael	Nodal Exchange	None
Xenopolous	Damon	Stone Mattheis Xenopoulos & Brew, PC	None
Yochelson	Cheri	Dominion Energy Generation Marketing, Inc.	Generation Owner

PJM Attendees

Last Name	First Name	Company	Sector
Barrett	Fran	PJM Interconnection, LLC	None
Beban	Madalyn	PJM Interconnection, LLC	None
Bennett	Stephen	PJM Interconnection, LLC	None
Bernstein	Matt	PJM Interconnection, LLC	None
Boyle	Glen	PJM Interconnection, LLC	None
Brown	Richard	PJM Interconnection, LLC	None
Bruno	Joshua	PJM Interconnection, LLC	None
Bruno	Patrick	PJM Interconnection, LLC	None
Bryson	Mike	PJM Interconnection, LLC	None
Budney	David	PJM Interconnection, LLC	None
Buehler	Susan	PJM Interconnection, LLC	None
Burnley	Helen	PJM Interconnection, LLC	None
Carroll	Rebecca	PJM Interconnection, LLC	None
Coyne	Suzanne	PJM Interconnection, LLC	None
Croop	Danielle	PJM Interconnection, LLC	None
Davis	Elizabeth	PJM Interconnection, LLC	None
DeVita	Thomas	PJM Interconnection, LLC	None
Dolan	James	PJM Interconnection, LLC	None
Drauschak	Lisa	PJM Interconnection, LLC	None
Duane	Vince	PJM Interconnection, LLC	None
Egan	Amanda	PJM Interconnection, LLC	None
Endress	Eric	PJM Interconnection, LLC	None
Fabiano	Janell	PJM Interconnection, LLC	None
Falin	Tom	PJM Interconnection, LLC	None
Fan	Zhenyu	PJM Interconnection, LLC	None
Fitzpatrick	Brian	PJM Interconnection, LLC	None
Foster	Denise	PJM Interconnection, LLC	None
Franks	Christine	PJM Interconnection, LLC	None
Freeman	Jennifer	PJM Interconnection, LLC	None
Frogg	Darrell	PJM Interconnection, LLC	None
Genuario	Gabrielle	PJM Interconnection, LLC	None
Glatz	Suzanne	PJM Interconnection, LLC	None
Glazer	Craig	PJM Interconnection, LLC	None
Gluck	Jim	PJM Interconnection, LLC	None
Greening	Michele	PJM Interconnection, LLC	None
Hauske	Tom	PJM Interconnection, LLC	None
Herel	Suzanne	PJM Interconnection, LLC	None

Last Name	First Name	Company	Sector
Herling	Steve	PJM Interconnection, LLC	None
Horger	Tim	PJM Interconnection, LLC	None
Hugee	Jacquelyn	PJM Interconnection, LLC	None
Keech	Adam	PJM Interconnection, LLC	None
Keegan	John	PJM Interconnection, LLC	None
Keshavamurthy	Bhavana	PJM Interconnection, LLC	None
Kimmel	David	PJM Interconnection, LLC	None
Levitt	Andrew	PJM Interconnection, LLC	None
Lu	Chen	PJM Interconnection, LLC	None
Mathew	Lagy	PJM Interconnection, LLC	None
McGlynn	Paul	PJM Interconnection, LLC	None
McLaverly	Megan	PJM Interconnection, LLC	None
Messina	Emmy	PJM Interconnection, LLC	None
Morelli	Lisa	PJM Interconnection, LLC	None
Nix	Emma	PJM Interconnection, LLC	None
O'Hara	Chris	PJM Interconnection, LLC	None
Patel	Keyur	PJM Interconnection, LLC	None
Phillips	Darlene	PJM Interconnection, LLC	None
Pilong	Chris	PJM Interconnection, LLC	None
Pilong	Melissa	PJM Interconnection, LLC	None
Reynolds	John	PJM Interconnection, LLC	None
Riley	Susan	PJM Interconnection, LLC	None
Salmon	Lisa	PJM Interconnection, LLC	None
Scheidecker	Paul	PJM Interconnection, LLC	None
Schmitt	Jeff	PJM Interconnection, LLC	None
Schuyler	Ken	PJM Interconnection, LLC	None
Seiler	Ken	PJM Interconnection, LLC	None
Shenk	Jordan	PJM Interconnection, LLC	None
Shields	Jeffrey	PJM Interconnection, LLC	None
Sims	Mark	PJM Interconnection, LLC	None
Sitarchyk	Michael	PJM Interconnection, LLC	None
Snyder	Susan	PJM Interconnection, LLC	None
Souder	Dave	PJM Interconnection, LLC	None
Souder	Michelle	PJM Interconnection, LLC	None
Souder	Rich	PJM Interconnection, LLC	None
Stadelmeyer	Rebecca	PJM Interconnection, LLC	None
Stanisz	Mark	PJM Interconnection, LLC	None

Last Name	First Name	Company	Sector
Stefanowicz	Vince	PJM Interconnection, LLC	None
Strella Wahba	Lauren	PJM Interconnection, LLC	None
Swimm	Nora	PJM Interconnection, LLC	None
Takahasi	Mark	PJM Interconnection, LLC	None
Tribulski	Jen	PJM Interconnection, LLC	None
Wallin	Donald	PJM Interconnection, LLC	None
Ward	Mike	PJM Interconnection, LLC	None
Warshel	Kim	PJM Interconnection, LLC	None
Williams	Stan	PJM Interconnection, LLC	None