

Markets and Reliability Committee  
The Chase Center, Wilmington, Delaware  
June 21, 2018  
9:00 a.m. – 12:50 p.m. EPT

## Administration

Welcome, announcements and Anti-trust and Code of Conduct announcement – Ms. Suzanne Daugherty and Mr. Dave Anders

## Endorsements/Approvals

### 1. Draft Minutes

Minutes of the May 24, 2018 meeting of the Markets and Reliability Committee (MRC) were **approved** by acclamation with no objections or abstentions.

### 2. PJM Manuals

- A. Mr. Eric Endress reviewed proposed changes to Manual 11: Energy & Ancillary Services Market Operations. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.
- B. Mr. Patricio Rocha-Garrido presented revisions to Manual 20: PJM Resource Adequacy Analysis. Following discussion, the committee **endorsed** the proposed revisions in a sector weighted vote with 4.56 in favor.

### 3. Governing Document Enhancement & Clarifications Subcommittee Updates (GDECS)

Ms. Jacquelyn Huges provided a review of changes to clean-up governing agreement cross-references in the Tariff and RAA. Following discussion, the committee **approved** that future similar changes simply be placed on a new Consent Agenda for the MRC (rather than presented at the MRC) by acclamation with no objections or abstentions, and **endorsed** the proposed revisions by acclamation with no objections or abstentions. There was no objection to adding this item to the Consent Agenda for the June 21, 2018 Members Committee meeting.

### 4. FTR Nodal Remapping (9:45-10:00)

Mr. Brian Chmielewski reviewed revisions to Manual 06: Financial Transmission Rights pertaining to the FTR Nodal Remapping issue. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.

### 5. Long Term FTR Auction

Mr. Brian Chmielewski reviewed the Long Term FTR Auction issue, and presented PJM's proposed package. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objection and ten abstentions. There was no objection to adding this item to the Consent Agenda for the June 21, 2018 Members Committee meeting.

## 6. Variable Operations & Maintenance Packages

Ms. Melissa Pulong reviewed the solution packages endorsed at the Market Implementation Committee (MIC) to address the Variable Operations & Maintenance (VOM) Costs issue. Particularly, she presented the main motion (also called the "Default" proposal) and the PJM proposal as the first alternative motion. Mr. Bill Fields moved and Ms. Susan Bruce seconded the Independent Market Monitor's proposal presented at the MIC as the second alternative motion. Mr. Brian Wilkie moved and Mr. Greg Poulos seconded a proposal developed by Rockland Electric Company as the third alternative motion. Mr. Brock Ondayko proposed a friendly amendment to the main motion to eliminate the capability of uncleared capacity resources (and energy only resources) to include their fixed costs in their energy market offers. There were no objections to this proposed friendly amendment and therefore it was incorporated into the main motion. Mr. Ondayko proposed a second friendly amendment to the main motion to keep long-term maintenance for CCs/CTs within RPM, and utilize the RECO values instead of EIA values as safe harbor, and units with higher costs than these values would be expected to provide information to PJM to justify greater values in their cost-based offer - no generating units will be allowed to exceed the Manual 15 VOM estimates unless explicitly approved by providing evidence to demonstrate such costs. Mr. O'Connell objected to this proposed friendly amendment and therefore this proposed friendly amendment was not incorporated into the main motion.

Mr. Mike Borgatti moved and Mr. Wilkie seconded a motion to defer voting on this issue to no later than the September 27, 2018 MRC meeting, and request further discussion at the MIC to foster clarity of the proposed friendly amendments, and to preserve the voting order on the motions. Mr. Robert O'Connell proposed a friendly amendment to change the due date to the August 23, 2018. Mr. Borgatti and Mr. Wilkie confirmed that this was friendly, and therefore the proposed friendly amendment was incorporated into the motion to defer. The committee **approved** the motion with no objections or abstentions.

## First Readings

### 7. Governing Document Revisions for Seasonal Demand Response Registration

Ms. Andrea Yeaton and Ms. Terri Esterly presented a first read of revisions to Manual 18: Capacity Market, the Open Access Transmission Tariff (Tariff) and the Reliability Assurance Agreement (RAA) associated with the registration process for aggregated seasonal Demand Response resources. The committee will be asked to endorse the revisions at its next meeting.

### 8. Revisions to RAA and Manual 18: PJM Capacity Market

Mr. Jack O'Neill reviewed revisions to the RAA and Manual 18: Capacity Market associated with changes developed at the Demand Response Subcommittee to address the Winter Peak Load (WPL) calculation issue assigned by the MIC in October, 2017. The committee will be asked to endorse the revisions at its next meeting.

## 9. Fuel Requirements for Black Start Resources Problem Statement & Issue Charge

Mr. David Schweizer presented a first read of a problem statement and issue charge on Fuel Requirements for Black Start Resources. The committee will be asked to endorse the problem statement and issue charge at its next meeting.

## 10. FTR Credit Proposal

Ms. Bridgid Cummings presented a first read on the FTR Credit proposal developed at the Credit Subcommittee (CS), and the associated Tariff revisions. The committee will be asked to endorse the proposal and Tariff revisions at its next meeting, and the Members Committee will be asked to endorse the proposal at its meeting on the same day.

## 11. PJM Manuals

- A. Ms. Bilge Derin reviewed proposed changes to Manual 01: Control Center and Data Exchange Requirements. The committee will be asked to endorse the manual revisions at its next meeting.
- B. Ms. Diane Lake reviewed proposed changes to Manual 3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA). The committee will be asked to endorse the manual revisions at its next meeting.
- C. Ms. Lisa Krizenoskas presented the split of Manual 14A: New Services Requests Process into revised Manual 14A: New Services Requests Study Process and new Manual 14G: Generation Interconnection Requests. The committee will be asked to endorse the manual revisions at its next meeting.

## Informational Updates

Ms. Daugherty noted that PJM member GreenHat Energy, LLC was collateral default, and would also be declared in payment default at 5:00 pm June 21, 2018 if they do not pay their currently overdue invoice.

Ms. Daugherty also noted that a member had met its obligation pursuant to the terms of a FERC approved Settlement Agreement to pay a disgorgement of approximately \$31.4 million, and committed that members would receive a follow-up email explaining how these funds would be allocated back to members who had been charged operating reserves during the period to which the disgorgement relates.

## Future Agenda Items

No new future agenda items were identified.

## Future Meeting Dates

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. Anders

### Chair and Secretary

Anders	Dave	PJM Interconnection	Not Applicable
Daugherty	Suzanne	PJM Interconnection	Not Applicable

### Voting Members

Last Name	First Name	Company	Sector
Adams	Chris	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ament	Todd	Cube Hydro Partners, LLC	Generation Owner
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Benchek	Jim	American Transmission Systems, Inc.	Transmission Owner
Bleiweis	Bruce	DC Energy, 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	NextEra Energy Marketing, LLC	Other Supplier
Borgatti	Michael	York County Solid Waste and Refuse Authority	Generation 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	Linde, LLC	End-Use Customer
Bruce	Susan	MeadWestvaco Corporation	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
Campbell	Bruce	Enerwise Global Technologies, Inc.	Other Supplier
Campbell	Bruce	MidAtlantic Power Partners, LLC	Other Supplier

Crystle	Gil	UGI Development Company	Generation Owner
Davis	James	Virginia Electric & Power Company	Transmission Owner
Evrard	David	Pennsylvania Office of Consumer Advocate	End-Use 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
Greiner	Gary	Public Service Electric & Gas Company	Transmission Owner
Guerry	Katie	EnerNOC, Inc.	Other Supplier
Hastings	David	Mercuria Energy America, Inc.	Other Supplier
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
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
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
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Kilgallen	Kevin	EDP Renewables North America, LLC	Generation Owner
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Melnyk	Markian	Atlantic Grid Operations A, LLC	Other Supplier
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
Philips	Marji	Direct Energy Business, LLC	Other Supplier
Philips	Marji	Newark Energy Center, LLC	Generation Owner
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 Attorney General, Kentucky	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	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
Pratzon	David	Eastern Generation, LLC	Generation Owner
Pratzon	David	Essential Power Rock Springs, LLC	Transmission Owner
Pratzon	David	Wheelabrator Frackville Energy Co., Inc.	Generation Owner
Prokop	Brenda	ITC Interconnection LLC	Transmission Owner
Richardson	Frank (Chip)	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Rohrbach	John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rohrbach	John	Wabash Valley Power Association, Inc.	Electric Distributor
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
Trayers	Barry	Citigroup Energy, 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
Wicks	Tonja	Duquesne Light Company	Transmission Owner
Wilkie	Brian	Rockland Electric Company	Transmission Owner

### Non-Voting Participants

Last Name	First Name	Company	Sector
Abend	Erik	Erik Abend Consulting	Not Applicable
Adams	Chris	East Kentucky Power Cooperative	Transmission Owner
Ainspan	Malcolm	NRG	Not Applicable
Bellard	Mickey	NAES Corporation	Not Applicable
Bleiweis	Bruce	DC Energy	Other Supplier
Bowring	Joe	Monitoring Analytics	Not Applicable
Branch	John	Edgecombe Genco, LLC	Generation Owner
Brown	David	BPT	Not Applicable
Carmean	Gregory	OPSI	Not Applicable
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Cox	Phil	American Electric Power	Not Applicable
Crystle	Gil	UGI Energy Services	Other Supplier
Dadourian	John	Monitoring Analytics	Not Applicable
Dasher	Brett	The Energy Authority	Other Supplier
Delosa	Joe	New Jersey Board Of Public Utilities	Not Applicable
Dillon	Matt	UGI Development	Generation Owner
Dolan	Ryan	American Municipal Power, Inc.	Electric Distributor
Domian	Christin	Duquesne Light Company	Transmission Owner
Dorman	Kevin	The Highlands Energy Group	Other Supplier
Drom	Rick	Affirmed Energy LLC	Other Supplier
Evrard	David	Pennsylvania Office Of Consumer Advocate	End User Customer
Feller	John	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Fields	William	Maryland Office of People's Counsel	End-Use Customer
Filomena	Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Gahimer	Mike	OUCG	Not Applicable
Gaston	Vilna	Public Service Electric & Gas Company	Transmission Owner



Gebolys	Debbie	Public Utilities Commission Of Ohio	Not Applicable
Gilani	Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Guntle	Vince	UGI Energy Services	Other Supplier
Guy	Gary	Exelon Business Services Company, LLC	Transmission Owner
Hass	Howard	Monitoring Analytics	Not Applicable
Hastings	David	MICS	Other Supplier
Hayik	Seth	Monitoring Analytics	Not Applicable
Heinle	Frederick	Office of the People's Counsel for the District of Columbia	End-Use Customer
Holdbrook	Ruth	NOVEC	Not Applicable
Horstmann	John	Dayton Power & Light Company	Transmission Owner
Hudis	Gabriella	Gabel & Associates	Not Applicable
Huntoon	Steve	Energy Council LLC	Not Applicable
Hurwich	Mark	Elliott Bay Energy Trading, LLC	Other Supplier
Janicki	Diane	Boston Energy Trading & Marketing LLC	Generation Owner
Kauffman	Brian	EnerNOC, Inc.	Other Supplier
Keenan	Matthew	Elwood Energy LLC	Generation Owner
Kelly	Stephen	Brookfield	Other Supplier
Kinser	Cynthia	Consumer Protection and Advocate Division of the Tennessee Attorney General	End-Use Customer
Knerschild	Jenjira	Old Dominion Electric Cooperative	Electric Distributor
Kreitler	Virginia	Sustainable FERC, NRDC	Not Applicable
Laios	Takis	American Electric Power	Not Applicable
Leasure	Jill	Keystone Conemaugh Project Office	Not Applicable
Little	John	Public Staff - North Carolina Utilities Commission	End-Use Customer
Long	Scott	Allegheny Electric Cooperative	Electricity Distributor
Luna	Joel	Monitoring Analytics	Not Applicable
Mack	Amanda	NextEra Energy Marketing LLC	Other Supplier
Mancuso	Melanie	FirstEnergy Solutions Corp.	Transmission Owner
Manning	James	North Carolina Electric Membership Corporation	Electric Distributor
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	End-Use Customer

Marinelli	Richard	Public Service Electric & Gas Company	Transmission Owner
Marton	Dave	FirstEnergy Solutions Corp.	Transmission Owner
Marzewski	Skyler	Monitoring Analytics	Not Applicable
McAlister	Lisa	American Municipal Power, Inc.	Electric Distributor
McLawhorn	James	Public Staff - North Carolina Utilities Commission	End-Use Customer
Merola	Becky	Calpine Energy Solutions, LLC	Other Supplier
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Miller	John	ComEd	Not Applicable
Moskowitz	Jodi	Public Service Electric & Gas Company	Transmission Owner
Nadel	Steven	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Nakayama	Hiroki	Marubeni Power International, Inc	Generation Owner
Nawaz	Zainab	New Jersey Board Of Public Utilities	Not Applicable
Ondayko	Brock	American Electric Power	Not Applicable
Pakela	Gregory	DTE Energy Trading	Other Supplier
Pakula	Maggie	Invenergy	Generation Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Pratzon	David	GT Power Group	Not Applicable
Price	Mark	DC Energy	Other Supplier
Rainey	Frank	PEI Power Corporation	Generation Owner
Ramsey	James	Suffolk Fund	Other Supplier
Ringhausen	Mark	Old Dominion Electric Cooperative	Electric Distributor
Rogier	Daniel	Transource Energy, LLC	Transmission Owner
Romero	Joel	Monitoring Analytics	Not Applicable
Rutigliano	Tom	MC	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Schneider	Jon	FirstEnergy Solutions Corp.	Transmission Owner
Schreim	Morris	Maryland Public Service Commission	Not Applicable
Schultheis	Dan	Exelon Business Services Company, LLC	Transmission Owner
Segner	Sharon	LS Power	Not Applicable
Shah	Pulin	Exelon Business Services Company, LLC	Transmission Owner
Shanker	Roy	East Coast Power	Not Applicable
Singer	Chad	Trane	Not Applicable

Steele	Robert	Sanitas Power, LLC	Other Supplier
Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Stewart	Travis	Gabel & Associates	Not Applicable
Stone	Andy	Gabel & Associates	Not Applicable
Stubbe	Judy	Duke Energy Business Services LLC	Transmission Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Swalwell	Bradley	Tangent Energy	Other Supplier
Sweeney	Rory	RTO Insider	Not Applicable
Tangirala	Subha	ABB	Not Applicable
Tatum	Ed	American Municipal Power, Inc.	Electric Distributor
Thompson	Matthew	XO Energy	Other Supplier
Tibbetts	Maeve	Pierce Atwood	Not Applicable
Tyler	Catherine	Monitoring Analytics	Not Applicable
Vargo	Daniel	Allegheny Electric Cooperative	Electricity Distributor
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Whitehead	Jeffrey	GT Power Group	Not Applicable
Wilhite	Chad	FirstEnergy Solutions Corp.	Transmission Owner
Wilmoth	Emily	Dominion Energy Generation Marketing, Inc.	Generation Owner
Wilson	Bram	PBF Power Marketing, LLC	Generation Owner
Wilson	James	Wilson Energy Economics	Not Applicable
Ziegler	Richard	American Transmission Systems, Inc.	Transmission Owner

## PJM

### Participants

Last Name	First Name	Company	Sector
Barrett	Francis	PJM Interconnection	Not Applicable
Bennett	Stephen	PJM Interconnection	Not Applicable
Berner	Aaron	PJM Interconnection	Not Applicable
Bresler	Stu	PJM Interconnection	Not Applicable
Brown	Rich	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

Chmielewski	Brian	PJM Interconnection	Not Applicable
Coyne	Suzanne	PJM Interconnection	Not Applicable
Davis	Elizabeth	PJM Interconnection	Not Applicable
DeLoach	Ron	PJM Interconnection	Not Applicable
Derin	Bilge	PJM Interconnection	Not Applicable
Derin	Zehra Bilge	PJM Interconnection	Not Applicable
Dirani	Rami	PJM Interconnection	Not Applicable
Drauschak	Lisa	PJM Interconnection	Not Applicable
Duane	Vince	PJM Interconnection	Not Applicable
Egan	Amanda	PJM Interconnection	Not Applicable
Ellen	Mary	PJM Interconnection	Not Applicable
Esterly	Theresa	PJM Interconnection	Not Applicable
Fabiano	Janell	PJM Interconnection	Not Applicable
Foster	Denise	PJM Interconnection	Not Applicable
Furnholm	Whitney	PJM Interconnection	Not Applicable
Gresh	Leslie	PJM Interconnection	Not Applicable
Hauske	Thomas	PJM Interconnection	Not Applicable
Herman	Michael	PJM Interconnection	Not Applicable
Holland	Risa	PJM Interconnection	Not Applicable
Hsia	Eric	PJM Interconnection	Not Applicable
Hugee	Jacquelynn	PJM Interconnection	Not Applicable
Kelley	Michael	PJM Interconnection	Not Applicable
Keshavamurthy	Bhavana	PJM Interconnection	Not Applicable
Kimmel	David	PJM Interconnection	Not Applicable
Krizenoskas	Lisa	PJM Interconnection	Not Applicable
Langbein	Pete	PJM Interconnection	Not Applicable
LaRocque	Matthew	PJM Interconnection	Not Applicable
Lee	Jin	PJM Interconnection	Not Applicable
Liebold	Chuck	PJM Interconnection	Not Applicable
Long	Glenn	PJM Interconnection	Not Applicable
McGill	Susan	PJM Interconnection	Not Applicable
McGlynn	Paul	PJM Interconnection	Not Applicable
Monzon	Stephanie	PJM Interconnection	Not Applicable
Morelli	Lisa	PJM Interconnection	Not Applicable
Murphy	Lori	PJM Interconnection	Not Applicable
Nix	Emma	PJM Interconnection	Not Applicable
O'Brien	Tom	PJM Interconnection	Not Applicable
O'Hara	Chris	PJM Interconnection	Not Applicable
O'Neill	Jack	PJM Interconnection	Not Applicable

Oskvig	O.H. Dean	PJM Interconnection	Not Applicable
Ott	Andrew	PJM Interconnection	Not Applicable
Patel	Keyur	PJM Interconnection	Not Applicable
Phillips	Darlene	PJM Interconnection	Not Applicable
Pilong	Chris	PJM Interconnection	Not Applicable
Quevada	Jason	PJM Interconnection	Not Applicable
Ritchie	Sandra	PJM Interconnection	Not Applicable
Rocha-Garrido	Patricio	PJM Interconnection	Not Applicable
Schmitt	Jeff	PJM Interconnection	Not Applicable
Schuyler	Ken	PJM Interconnection	Not Applicable
Schweizer	David	PJM Interconnection	Not Applicable
Seiler	Ken	PJM Interconnection	Not Applicable
Shah	Vijay	PJM Interconnection	Not Applicable
Shoemaker	Jason	PJM Interconnection	Not Applicable
Sims	Mark	PJM Interconnection	Not Applicable
Sitarchik	Mike	PJM Interconnection	Not Applicable
Slusser	Jeff	PJM Interconnection	Not Applicable
Smith	Melissa	PJM Interconnection	Not Applicable
Snyder	Susan	PJM Interconnection	Not Applicable
Souder	Dave	PJM Interconnection	Not Applicable
Starkob	Stefan	PJM Interconnection	Not Applicable
Swimm	Nora	PJM Interconnection	Not Applicable
Takahasi	Mark	PJM Interconnection	Not Applicable
Velasco	Cheryl	PJM Interconnection	Not Applicable
Ward	Michael	PJM Interconnection	Not Applicable
Watkin	Erik	PJM Interconnection	Not Applicable
Williams	Stan	PJM Interconnection	Not Applicable
Wolfe	Art	PJM Interconnection	Not Applicable
Yeaton	Andrea	PJM Interconnection	Not Applicable
Yingling	Bill	PJM Interconnection	Not Applicable