

**Markets and Reliability Committee**  
**PJM, Conference and Training Center, Audubon, PA**  
**July 26, 2018**  
**9:00 a.m. – 1:40 p.m. EPT**

## Administration

Ms. Suzanne Daugherty and Mr. Dave Anders welcomed stakeholders and provided the Anti-trust and Code of Conduct announcement.

## Endorsements/Approvals

### 1. Draft Minutes

Minutes of the June 21, 2018 meeting of the Markets and Reliability Committee (MRC) were **approved** by acclamation with no objections or abstentions.

### 2. PJM Manuals

- A. Ms. Diane Lake reviewed proposed changes to Manual 3A: Energy Management System Model Updates and Quality Assurance.
- B. Ms. Susan Kenney reviewed conforming revisions to Manual 11: Energy & Ancillary Services Market Operations to correct certain provisions regarding price-based offers.
- C. Ms. Lisa Krizenoskas presented the split of Manual 14A into revised Manual 14A New Services Requests Study Process and new Manual 14G Generation Interconnection Requests.

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

### 3. Seasonal Demand Response Registration

Ms. Andrea Yeaton presented revisions to Manual 18: PJM Capacity Market, the Open Access Transmission Tariff (OATT) and the Reliability Assurance Agreement (RAA) associated with the registration process for aggregated seasonal Demand Response resources. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.

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

Mr. Jack O'Neill reviewed revisions to the Reliability Assurance Agreement (RAA) and Manual 18: PJM Capacity Market associated with changes developed at the Demand Response Subcommittee (DRS) to address an issue identified with atypically low customer load during winter peak load calculation period. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.

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

Mr. David Schweizer presented a problem statement and issue charge on Fuel Requirements for Black Start Resources. Following discussion, the initiation date for the work effort was revised to December 2018, and the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.

## 6. FTR Credit Proposal

Ms. Bridgid Cummings will present the minimum per-MWh FTR credit proposal and the associated Tariff revisions which were developed at the Credit Subcommittee (CS) and endorsed by the MIC. Following discussion, the committee **endorsed** the proposed revisions by acclamation with one objection and no abstentions. The Members Committee will be asked to endorse this item at its July 26, 2018 meeting.

## 7. Variable Operations & Maintenance Packages

Ms. Melissa Pilog reviewed the solution packages endorsed at the Market Implementation Committee (MIC) to address the Variable Operations & Maintenance (VOM) Costs issue. Ms. Adrien Ford, ODEC, proposed a friendly amendment to the PJM proposal to remove from the proposal the provision for "Energy Only Resources and units that did not clear a capacity auction to include ACR in fixed costs in the VOM". Mr. Barry Trayers objected to this being friendly, and therefore it was not included in the PJM proposal. Ms. Ford moved and Mr. Steve Lieberman seconded a fifth alternative motion to comprising the PJM proposal with the provision above removed (dubbed the "ODEC" proposal). Following discussion, the following sector-weighted votes were taken in which all proposals **failed**:

- "Default" proposal – 2.28 in favor
- PJM proposal – 2.86 in favor
- IMM proposal – 1.83 in favor
- Orange & Rockland proposal – 1.97 in favor
- ODEC proposal – 2.65 in favor

Mr. Steve Lieberman moved and Mr. Barry Trayers seconded the PJM proposal. This motion **failed** in a sector-weighted vote with 2.93 in favor.

## First Readings

## 8. Market Efficiency Process Enhancement Proposal

Mr. Nicolae Dumitriu presented the Market Efficiency phase 1 proposal developed at the Market Efficiency Process Enhancement Task Force, and the associated Tariff revisions. The committee will be requested to endorse the proposal and Tariff revisions at its next meeting.

9. Distributed Energy Resources (DER) Ride Through Problem Statement & Issue Charge

This item was removed from the agenda and referred to the Planning Committee.

10. PJM Manuals

- A. Mr. Art Wolfe presented general changes being made to Manual 14C: Generation & Transmission Interconnection Facility Construction. The committee will be asked to endorse the manual revisions at its next meeting.
- B. Mr. Nicolae Dumitriu and Mr. Jason Shoemaker presented proposed revisions to Manual 14F: Competitive Planning Process. The committee will be asked to endorse the manual revisions at its next meeting.

## Informational Updates

11. Transmission Replacement Process Sr. Task Force Update (TRPSTF)

- A. Mr. Fran Barrett provided an update on the current status of the TRPSTF and discussed the path forward.
- B. Mr. Ed Tatum, American Municipal Power, commented on the activities and state of the TRPSTF. Mr. Tatum moved and Ms. Adrien Ford seconded that the TRPSTF be sunset. Following discussion, the committee **approved** the motion by acclamation with one objection and two abstentions.
- C. Mr. Ed Tatum moved and Ms. Ford seconded a proposal for addressing End of Life facilities in the PJM planning process, including revisions to Manual 14B: Regional Transmission Planning Process. The Committee will be asked to endorse these revisions at its next meeting.

12. Summer-Only Demand Response Sr. Task Force Update

Ms. Rebecca Carroll provided an update on the current status of the SODRSTF.

13. Quadrennial Review Update

Mr. Gary Helm provided an informational update on the status of the Quadrennial Review.

14. Dominion Carolina 54 RAS/SPS Retirement

Mr. Craig Crider, Dominion, presented information on the retirement of the Carolina 54 RAS/SPS.

15. FTR Default and Liquidation

Ms. Suzanne Daugherty provided an update on the recent default and related liquidation efforts.

## Future Agenda Items

No new future agenda items were identified.

## Future Meeting Dates

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 and Secretary

Anders	David	PJM Interconnection	Not Applicable
Daugherty	Suzanne	PJM Interconnection	Not Applicable

## Voting Members

Last Name	First Name	Company	Sector
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Benckek	Jim	American Transmission Systems, Inc.	Transmission Owner
Birnel	William	Westar Energy, Inc.	Other Supplier
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Borgatti	Michael	NextEra Energy Marketing, LLC	Other Supplier
Borgatti	Michael	Covanta Energy Group, LLC	Generation Owner
Borgatti	Michael	York County Solid Waste and Refuse Authority	Generation Owner
Borgatti	Michael	Jersey Green Energy, LLC	Other Supplier
Borgatti	Michael	Moxie Freedom LLC	Generation Owner
Borgatti	Michael	Longview Power, LLC	Generation Owner
Bruce	Susan	Kimberly-Clark Corporation	Generation Owner
Bruce	Susan	Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Gerdau Ameristeel Energy, Inc.	Other Supplier
Bruce	Susan	Industrial Energy Users-Ohio	Other Supplier
Bruce	Susan	ArcelorMittal USA LLC	End-Use Customer
Bruce	Susan	Letterkenny Industrial Development Authority - PA	Electric Distributor
Bruce	Susan	MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Praxair, Inc.	End-Use Customer

Bruce	Susan	Lehigh Portland Cement Company	End-Use Customer
Bruce	Susan	Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	Linde, LLC	End-Use Customer
Bruce	Susan	Wellsboro Electric Company	Electric Distributor
Bruce	Susan	Procter & Gamble Paper Products Company (The)	Generation Owner
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
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ellison	Alan	Grays Ferry Cogeneration Partnership	Generation Owner
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
Giles	Steven	Allegheny Electric Cooperative, Inc.	Electric Distributor
Greiner	Gary	Public Service Electric & Gas Company	Transmission Owner
Hastings	David	SESCO Enterprises, LLC	Other Supplier
Hastings	David	Solios Power Mid-Atlantic Trading, LLC	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
Helms	Joseph	Rainbow Energy Marketing Corporation	Other Supplier
Hoatson	Tom	West Deptford Energy, LLC	Generation Owner
Hoatson	Tom	Riverside Generating, 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	Other Supplier
Hyzinski	Thomas	Dynegy Marketing and Trade, LLC	Generation Owner
Hyzinski	Thomas	Carroll County Energy LLC	Generation Owner
Johnson	Carl	Easton Utilities Commission	Electric Distributor



Johnson	Carl	North Carolina Municipal Power Agency Number 1	Other Supplier
Johnson	Carl	Indiana Municipal Power Agency	Generation Owner
Johnson	Carl	North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson	Carl	Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Town of Williamsport (The)	Electric Distributor
Johnson	Carl	WPPI Energy	Other Supplier
Johnson	Carl	Madison Gas & Electric Co.	Other Supplier
Johnson	Carl	Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Borough of Chambersburg	Electric Distributor
Johnson	Carl	Galt Power, Inc.	Other Supplier
Johnson	Carl	Energy Cooperative Association of Pennsylvania (The)	Other Supplier
Johnson	Carl	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson	Carl	Northern Illinois Municipal Power Agency	Electric Distributor
Johnson	Carl	Allegheny Electric Cooperative, Inc.	Electric Distributor
Johnson	Carl	Buckeye Power, Inc.	Electric Distributor
Johnson	Carl	American Municipal Power, Inc.	Electric Distributor
Johnson	Carl	Central Virginia Electric Cooperative	Electric Distributor
Johnson	Carl	City of Dover, Delaware	Electric Distributor
Johnson	Carl	Hagerstown Light Department	Electric Distributor
Johnson	Carl	Illinois Municipal Electric Agency	Electric Distributor
Johnson	Carl	Old Dominion Electric Cooperative	Electric Distributor
Kauffman	Brian	EnerNOC, Inc.	Other Supplier
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	Borough of Lavallette, New Jersey	Electric Distributor
Lieberman	Steven	Borough of Madison, New Jersey	Electric Distributor
Lieberman	Steven	Borough of Butler, Butler Electric Division	Electric Distributor
Lieberman	Steven	Borough of Pemberton, New Jersey	Electric Distributor
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor

Lieberman	Steven	PBF Power Marketing, LLC	Generation Owner
Lieberman	Steven	Borough of Park Ridge, 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
Lieberman	Steven	Borough of Milltown, New Jersey	Electric Distributor
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
O'Boyle	Brian	Rockland Electric Company	Transmission Owner
O'Connell	Robert	PPGI Fund A/B Development, LLC.	Generation Owner
Pakula	Maggie	Invenergy, LLC	Generation Owner
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Philips	Marji	Direct Energy Business, LLC	Other Supplier
Philips	Marji	Newark Energy Center, LLC	Generation Owner
Poulos	Greg	Public Staff - North Carolina Utilities Commission	End-Use Customer
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	Office of the People's Counsel for the District of Columbia	End-Use Customer
Poulos	Greg	Virginia Division of Consumer Counsel	End-Use Customer
Poulos	Greg	West Virginia Consumer Advocate Division	End-Use Customer
Poulos	Greg	Michigan Department of Attorney General, Environment, Natural Resources, & Agriculture Division	End-Use Customer
Poulos	Greg	Office of the Attorney General, Kentucky	End-Use Customer
Poulos	Greg	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Poulos	Greg	Ohio Consumers' Counsel	End-Use Customer
Poulos	Greg	New Jersey Division of Rate Counsel	End-Use Customer
Poulos	Greg	Pennsylvania Office of Consumer Advocate	End-Use Customer
Poulos	Greg	Maryland Office of People's Counsel	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
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
Rushing	Nathan	CPV Power Holdings, LP	Generation Owner
Rushing	Nathan	Kestrel Acquisition, LLC	Generation Owner
Rushing	Nathan	Homer City Generation, L.P.	Generation Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Shparber	Steve	Syncarpha Solar, LLC	Generation Owner
Spencer	Doug	Southeastern Power Administration	Other Supplier
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Trayers	Barry	Citigroup Energy, Inc.	Other Supplier
Vayda	Brian	Borough of Pemberton, New Jersey	Electric Distributor
Vayda	Brian	Borough of Milltown, New Jersey	Electric Distributor
Vayda	Brian	Borough of Lavallette, New Jersey	Electric Distributor
Vayda	Brian	Borough of Park Ridge, New Jersey	Electric Distributor
Vayda	Brian	Borough of South River, New Jersey	Electric Distributor
Vayda	Brian	Vineland Municipal Electric Utility	Electric Distributor
Vayda	Brian	Borough of Seaside Heights, New Jersey	Electric Distributor
Vayda	Brian	Borough of Madison, New Jersey	Electric Distributor
Vayda	Brian	Borough of Butler, Butler Electric Division	Electric Distributor
Wadsworth	Joe	Vitol Inc.	Other Supplier
Wicks	Tonja	Duquesne Light Company	Transmission Owner

### Non-Voting Participants

Last Name	First Name	Company	Sector
Abend	Erik	Erik Abend Consulting	None
Adams	Darrin	East Kentucky Power Coop	Transmission Owner
Ainspan	Malcolm	NRG	None
Ament	Todd	Cube Hydro Partners, LLC	Generation Owner
Anderson	Jared	Platts	None



Arabia	Steven	Lightstone Generation	None
Bainbridge	Tom	FirstEnergy Solutions Corp.	Transmission Owner
Batta	Mike	Dominion Energy Generation Marketing, Inc.	Generation Owner
Bayless	Charlie	North Carolina Electric Membership Corporation	Electric Distributor
Birnel	William	Westar Energy	Other Supplier
Bowring	Joe	Monitoring Analytics	None
Branch	John	St. Josephs Energy Center	None
Brown	David	Board Of Public Utilities	None
Campbell	Bruce	Enerwise	Other Supplier
Carmean	Gregory	OPSI	None
Carrado	Regina	Exelon Business Services Company, LLC	Transmission Owner
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Cook	Elizabeth	Duquesne Light Company	Transmission Owner
Crider	Craig	Dominion Energy Generation Marketing, Inc.	Generation Owner
Dalessandris	Lou	FirstEnergy Solutions Corp.	Transmission Owner
Daroy	Daniel	Dominion Energy Generation Marketing, Inc.	Generation Owner
Dasher	Brett	The Energy Authority	None
Delosa	Joe	New Jersey Board Of Public Utilities	None
Depillo	Ray	Public Service Electric & Gas Company	Transmission Owner
Dillon	Matt	UGI Development	Generation Owner
Dolan	Ryan	American Municipal Power, Inc.	Electric Distributor
Domian	Christin	Duquesne Light Company	Transmission Owner
Esposito	Patricia	A2A Energy	None
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.*	None
Fletcher	Jennifer	FERC	None
Foladare	Kenneth	Tangibl	None
Gahimer	Mike	OUC	None
Gebolys	Debbie	The Public Utilities Commission Of Ohio	None

Gilani	Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Grace	Sandy	Exelon Business Services Company, LLC	Transmission Owner
Guntle	Vince	UGI Energy Services	Other Supplier
Hanser	Erik	Michigan Public Service Commission	None
Harchick	Jason	Duquesne Light Company	Transmission Owner
Hastings	David	MICS	Other Supplier
Heinle	Erik	DC Peoples Council	None
Heisey	Bradley	Tenaska Power Management, LLC	Other Supplier
Helms	Joe	Rainbow Energy Marketing Corporation	Other Supplier
Holdbrook	Ruth	NOVEC	None
Hudis	Gabriella	Jersey Green Energy, LLC	Other Supplier
Hunter	Rebecca	Calpine Energy Services, L.P.	Generation Owner
Huntoon	Steve	Energy Counsel LLP	None
Hurwich	Mark	Elliott Bay Energy Trading LLC	Other Supplier
Janicki	Diane	Boston Energy Trading And Marketing	Generation Owner
Jay	John	Direct Energy	Other Supplier
Jha	Monica	Power Costs	None
John	Peoples	Duquesne Light Company	Transmission Owner
Johnston	David	Indiana Utility Regulatory Commission	None
Knerschild	Jenjira	Old Dominion Electric Cooperative	Electric Distributor
Kreitler	Ginny	Sustainable FERC	None
Kuo	David	D.C. Energy	Other Supplier
Laios	Takis	American Electric Power	None
Lawson	Ryen	Dominion Energy Generation Marketing, Inc.	Generation Owner
Liang-Nicol	Cecilia	FirstEnergy Solutions Corp.	Transmission Owner
Little	John	North Carolina Public Staff	None
Logan	Sharon	FERC	None
Long	Scott	Allegheny Electric Cooperative	Electricity Distributor
Luna	Joel	Monitoring Analytics	None
Mack	Amanda	NextEra Energy Marketing, LLC	Other Supplier
Mancuso	Melanie	FirstEnergy Solutions Corp.	Transmission Owner
Manning	James	North Carolina Electric Membership Corporation	Electric Distributor
Marton	Dave	FirstEnergy Solutions Corp.	Transmission Owner

Mcalister	Lisa	American Municipal Power, Inc.	Electric Distributor
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Nadel	Steven	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Nakayama	Hiroki	Marubeni	Generation Owner
Noewer	Sharon	FirstEnergy Solutions Corp.	Transmission Owner
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
O'Connell	Robert	Panda Power Funds	None
Ondayko	Brock	American Electric Power	None
Pakula	Maggie	Invenergy	Generation Owner
Pelletier	Eveline	HQ Energy Services	Other Supplier
Peoples	John	Duquesne Light Company	Transmission Owner
Pezalla	Bill	Old Dominion Electric Cooperative	Electric Distributor
Philips	Marji	Direct Energy	Other Supplier
Pratzon	David	GT Power Group	None
Price	Mark	D.C. Energy	Other Supplier
Price	Ruth	Delaware Division Of The Public Advocate	End-Use Customer
Prokop	Brenda	ITC Mid-Atlantic Development LLC	Other Supplier
Ramsey	James	Suffolk Fund	Other Supplier
Reams	William	Allegheny Electric Cooperative	Electricity Distributor
Riehl	John	FERC	None
Rohrbach	John	Southern Maryland Electric Coop	Electric Distributor
Rothey	Kristin	American Municipal Power, Inc.	Electric Distributor
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	None
Schreim	Morris	Maryland Office of People's Counsel	End-Use Customer
Segner	Sharon	LS Power	None
Seibel	August	IMG Midstream	Generation Owner
Shah	Pulin	Exelon Business Services Company, LLC	Transmission Owner
Shparber	Steven	Nelson Mullins	None
Sillin	John	FERC	None
Spencer	Douglas	Southeastern Power Administration	Other Supplier
Stancombe	Corey	Duke Energy Kentucky, Inc.	Transmission Owner
Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Stewart	Travis	Gabel & Associates	None
Stone	Andy	Gabel & Associates	None

Stubbe	Judy	Duke Energy Business Services LLC	Transmission Owner
Sturgeon	John	Duke Energy Business Services	Transmission Owner
Sweeney	Rory	RTO Insider	None
Tatum	Ed	American Municipal Power, Inc.	Electric Distributor
Tatum	Erin	Private Investor	None
Taylor	Robert	Exelon Business Services Company, LLC	Transmission Owner
Thocarro	Iker	E On Climate Renewables	Generation Owner
Thompson	Matthew	XO Energy	Other Supplier
Tibbetts	Maeve	Pierce Atwood	None
Tom	Bainbridge	FirstEnergy Solutions Corp.	Transmission Owner
Tsao	Stephanie	S&P Global	None
Tyler	Catherine	Monitoring Analytics	None
Vansteel	James	Michigan Public Service Commission	None
Vargo	Daniel	Allegheny Electric Cooperative	Electricity Distributor
Vogel	Anne	AEP	None
Von	Fred	NextEra Energy Marketing, LLC	Other Supplier
Wadsworth	Joe	Vitol	Other Supplier
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Weaver	David	PECO Energy Company	Transmission Owner
Weeks	Tom	Michigan Public Power Agency	Generation Owner
Whitehead	Jeffrey	GT Power Group	None
Wilhite	Chad	FirstEnergy Solutions Corp.	Transmission Owner
Wilkie	Brian	Rockland Electric Company	Transmission Owner
Wilson	Bram	Diamond State Generation Partners, LLC	Generation Owner
Wilson	James	Wilson Energy Economics	None
Wisersky	Megan	Madison Gas & Electric	Other Supplier
Wolfe	Alice	The Blue Ridge Power Agency	None
Wolfe	Sam	Viridity Energy Solutions	Other Supplier

### PJM Participants

Last Name	First Name	Company	Sector
Baker	Scott	PJM Interconnection	Not Applicable
Barrett	Francis	PJM Interconnection	Not Applicable
Bazar	Kevin	PJM Interconnection	Not Applicable
Bennett	Stephen	PJM Interconnection	Not Applicable

Borradaile	Michael	PJM Interconnection	Not Applicable
Boyle	Glen	PJM Interconnection	Not Applicable
Bresler	Stu	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
Cawley	Troy	PJM Interconnection	Not Applicable
Connell	Jason	PJM Interconnection	Not Applicable
Cory	Patricia	PJM Interconnection	Not Applicable
Coyne	Suzanne	PJM Interconnection	Not Applicable
Cummings	Bridgid	PJM Interconnection	Not Applicable
			Not Applicable
DeLoach	Ron	PJM Interconnection	Not Applicable
Drauschak	Lisa	PJM Interconnection	Not Applicable
Driscoll	MaryEllen	PJM Interconnection	Not Applicable
Duane	Vince	PJM Interconnection	Not Applicable
Egan	Dave	PJM Interconnection	Not Applicable
Fabiano	Janell	PJM Interconnection	Not Applicable
Falin	Thomas	PJM Interconnection	Not Applicable
Falin	Tom	PJM Interconnection	Not Applicable
Fernandes	Anisha	PJM Interconnection	Not Applicable
Foley	Pauline	PJM Interconnection	Not Applicable
Foster	Denise	PJM Interconnection	Not Applicable
Glatz	Suzanne	PJM Interconnection	Not Applicable
Gledhill	Andrew	PJM Interconnection	Not Applicable
Greening	Michele	PJM Interconnection	Not Applicable
Hauske	Tom	PJM Interconnection	Not Applicable
Heater	Megan	PJM Interconnection	Not Applicable
Hendrzak	Chantal	PJM Interconnection	Not Applicable
Herling	Steve	PJM Interconnection	Not Applicable
Herman	Michael	PJM Interconnection	Not Applicable
Hilderbrand	Rebecca	PJM Interconnection	Not Applicable
Holter	Natasha	PJM Interconnection	Not Applicable
Horger	Tim	PJM Interconnection	Not Applicable



Hugee	Jacquelynn	PJM Interconnection	Not Applicable
Keech	Adam	PJM Interconnection	Not Applicable
Kenney	Susan	PJM Interconnection	Not Applicable
Keshavamurthy	Bhavana	PJM Interconnection	Not Applicable
Krizenoskas	Lisa	PJM Interconnection	Not Applicable
Lake	Diane	PJM Interconnection	Not Applicable
Langbein	Pete	PJM Interconnection	Not Applicable
Larocque	Matthew	PJM Interconnection	Not Applicable
Long	Glenn	PJM Interconnection	Not Applicable
Loomis	Hal	PJM Interconnection	Not Applicable
Lu	Chen	PJM Interconnection	Not Applicable
Luska	Kirsten	PJM Interconnection	Not Applicable
Malladi	Brinda	PJM Interconnection	Not Applicable
Manion	Evelyn	PJM Interconnection	Not Applicable
McLaverty	Megan	PJM Interconnection	Not Applicable
Mirhosseini	Niloufar	PJM Interconnection	Not Applicable
Miscavage	David	PJM Interconnection	Not Applicable
Monzon	Stephanie	PJM Interconnection	Not Applicable
Morelli	Lisa	PJM Interconnection	Not Applicable
Muhl	Nancy	PJM Interconnection	Not Applicable
Murphy	Lori	PJM Interconnection	Not Applicable
Nix	Emma	PJM Interconnection	Not Applicable
Ofoegbu	Chibuzor	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
Patt	Kate	PJM Interconnection	Not Applicable
Phillips	Darlene	PJM Interconnection	Not Applicable
Pilong	Melissa	PJM Interconnection	Not Applicable
Quevada	Jason	PJM Interconnection	Not Applicable
Ritchie	Sandra	PJM Interconnection	Not Applicable
Robinson	Evelyn	PJM Interconnection	Not Applicable
Salmon	Lisa	PJM Interconnection	Not Applicable
Schmitt	Jeff	PJM Interconnection	Not Applicable
Schweizer	David	PJM Interconnection	Not Applicable
Schwenk	Melissa	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
Smith	Melissa	PJM Interconnection	Not Applicable
Snyder	Susan	PJM Interconnection	Not Applicable
Souder	Michelle	PJM Interconnection	Not Applicable
Stefanowicz	Vincent	PJM Interconnection	Not Applicable
Stotesbury	Christina	PJM Interconnection	Not Applicable
Swimm	Nora	PJM Interconnection	Not Applicable
Tutino	Joseph	PJM Interconnection	Not Applicable
Velasco	Cheryl	PJM Interconnection	Not Applicable
Volinsky	Sheila	PJM Interconnection	Not Applicable
Ward	Michael	PJM Interconnection	Not Applicable
Williams	Stan	PJM Interconnection	Not Applicable
Wolfe	Arthur	PJM Interconnection	Not Applicable
Xu	Xu	PJM Interconnection	Not Applicable
Yeaton	Andrea	PJM Interconnection	Not Applicable
Yingling	Bill	PJM Interconnection	Not Applicable