

Markets and Reliability Committee
The DoubleTree Hotel, Wilmington, DE
December 6, 2018
9:00 a.m. – 1:10 p.m. EPT

Administration

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

Mr. Andy Ott addressed a letter sent on December 5, 2018 from the PJM Board of Managers regarding energy price formation.

Mr. Tim Horger discussed implementation of the adjustment to the timeline for the Day-Ahead Market, noting FERC approval on December 4, 2018. He announced that the adjustment will be implemented on December 19, 2018 for entry of bids and offers in the Day-Ahead Market for December 20, 2018.

Consent Agenda

Item A was **approved** by acclamation with no objections or abstentions.

A. Minutes of the October 25, 2018 meeting of the Markets and Reliability Committee (MRC).

Endorsements/Approvals

1. PJM Manuals

- A. Mr. Yuri Smolanitsky reviewed proposed changes to Manual 03: Transmission Operations.
- B. Mr. Vince Stefanowicz reviewed proposed changes to Manual 10: Pre-Scheduling Operations.
- C. Mr. Vince Stefanowicz reviewed proposed changes to Manual 14D: Generator Operational Requirements.
- D. Mr. Ray Fernandez review proposed changes to Manual 27: Open Access Transmission Tariff Accounting as part of the Biennial Review.
- E. Mr. Brian Chmielewski reviewed proposed changes to Manual 06: Financial Transmission Rights as part of the Annual Review.
- F. Mr. Keyur Patel reviewed conforming changes to Manual 11: Energy & Ancillary Services Market Operations related to the changes to the Day Ahead Timeline.

Following discussion, the committee **endorsed** the proposed revisions in items 1.A through 1.D and 1.F by acclamation with no objections or abstentions. The committee **endorsed** the proposed revisions in items 1.E by acclamation with one objection and seven abstentions.

2. Price Responsive Demand Review for Capacity Performance Requirements

Mr. Pete Langbein reviewed proposals developed by the Demand Response Subcommittee (DRS) to address Capacity Performance changes required for Price Responsive Demand. Following discussion,

the committee **endorsed** the proposed revisions in a sector-weighted vote with 3.72 in favor. Ms. Daugherty noted that Members Committee (MC) will be asked to endorse the proposal its December 6, 2018 meeting.

3. 2019 Day Ahead Scheduling Reserve (DASR) Requirement

Mr. Eric Endress reviewed proposed changes to the 2019 Day Ahead Scheduling Reserve (DASR) requirement. Following discussion, the committee **endorsed** the proposed revisions by acclamation with one objection and seven abstentions.

4. Surety Bonds

Mr. Hal Loomis presented two stakeholder proposals developed at the Credit Subcommittee related to the use of surety bonds as an acceptable form of collateral. Ms. Sharon Midgley, Exelon, moved and Mr. Erik Heinle, DC Office of the Peoples' Counsel, seconded deferral of voting on these proposals until the first MRC meeting following issuance of the Board Special Committee report. The committee **approved** the motion to defer by acclamation with no objections or abstentions.

5. Gas Pipeline Contingencies

Mr. Richard Brown reviewed the package endorsed by the Market Implementation Committee related to Gas Pipeline Contingencies. Mr. David Scarpignato proposed a posted friendly amendment to change "Penalties" to "Gas Balancing Costs" throughout the proposed revisions as well as some additional updates. There were no objections and therefore this was incorporated into the main motion. Ms. Susan Bruce, PJM Industrial Customer Coalition, moved and Mr. Erik Heinle seconded Package D as the first alternate motion. Following discussion, the proposed revisions associated with the main motion **failed** in a sector-weighted vote with 3.13 in favor. The proposed revisions associated with Package D, the first alternate motion, were **endorsed** in a sector-weighted vote with 3.77 in favor. Ms. Daugherty noted that MC will be asked to endorse the proposal its December 6, 2018 meeting.

First Readings

6. FTR Mark-to-Auction Credit Requirements

- A. Ms. Bridgid Cummings presented the Mark-to-Auction proposals and associated Credit Subcommittee polling results.
- B. Dr. Scott Harvey, FTI Consulting, reviewed his assessment of the Mark-to-Auction proposals.

The committee will be asked to endorse a proposal at its next meeting.

7. Must Offer Exception Process

Mr. Pat Bruno presented a proposal regarding the Must Offer Exception Process. The committee will be asked to endorse this proposal at its next meeting.

8. FTR Forfeiture Rule

Mr. Brian Chmielewski presented proposed revisions to the FTR Forfeiture Rule. The committee will be asked to endorse this proposal at its next meeting.

9. Distributed Energy Resources

Mr. Pete Langbein reviewed proposed clarifications of market participation rules for Distributed Energy Resources located behind a customer's meter participating as demand response to reduce load and as generation for additional power that can be injected with the appropriate interconnection agreement. The committee will be asked endorse to these revisions at its next meeting.

10. PJM Manuals

- A. Ms. Rebecca Stadelmeyer reviewed proposed revisions to Manual 14D: Generator Operational Requirements related to Resource Tracker. The committee will be asked to endorse these revisions at its next meeting.
- B. Ms. Lisa Krizenoskas presented to Manual 14E: Upgrade & Transmission Interconnection Requests. The committee will be asked to endorse these revisions at its next meeting.

Informational Updates

11. Transmission Replacement Process

Ms. Suzanne Daugherty provided an update on status of the Manual 14B revisions to address the transmission replacement process.

Future Agenda Items

No new future agenda items were identified.

Future Meeting Dates

| | | |
|--------------------|-----------|------------------|
| December 20, 2018 | 9:00 a.m. | Valley Forge, PA |
| January 24, 2019 | 9:00 a.m. | Wilmington, DE |
| February 21, 2019 | 9:00 a.m. | Wilmington, DE |
| March 21, 2019 | 9:00 a.m. | Wilmington, DE |
| April 25, 2019 | 9:00 a.m. | Valley Forge, PA |
| May 30, 2019 | 9:00 a.m. | Valley Forge, PA |
| June 27, 2019 | 9:00 a.m. | Wilmington, DE |
| July 25, 2019 | 9:00 a.m. | Wilmington, DE |
| August 22, 2019 | 9:00 a.m. | Wilmington, DE |
| September 26, 2019 | 9:00 a.m. | Valley Forge, PA |
| October 31, 2019 | 9:00 a.m. | Wilmington, DE |
| December 05, 2019 | 9:00 a.m. | Wilmington, DE |
| December 19, 2019 | 9:00 a.m. | Valley Forge, PA |

Author: D.A. Anders

Secretary/Facilitator

| Last Name | First Name | Company | Sector |
|-----------|------------|--------------------------|----------------|
| Anders | David | PJM Interconnection, LLC | Not Applicable |
| Daugherty | Suzanne | PJM Interconnection, LLC | Not Applicable |

Voting Participants

| Last Name | First Name | Company | Sector |
|-----------|------------|--|----------------------|
| Benchek | Jim | American Transmission Systems, Inc. | Transmission Owner |
| Bleiweis | Bruce | DC Energy, LLC | Other Supplier |
| Borgatti | Michael | Rep.'g Covanta Energy Group, LLC | Generation Owner |
| Borgatti | Michael | Rep.'g Edgecombe Genco, LLC | Generation Owner |
| Borgatti | Michael | Rep.'g Jersey Green Energy, LLC | Other Supplier |
| Borgatti | Michael | Rep.'g Longview Power, LLC | Generation Owner |
| Borgatti | Michael | Rep.'g Moxie Freedom LLC | Generation Owner |
| Borgatti | Michael | Rep.'g NextEra Energy Marketing, LLC | Other Supplier |
| Borgatti | Michael | Rep.'g York County Solid Waste and Refuse Authority | Generation 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 |
| Bruce | Susan | Rep.'g Linde, LLC | End-Use Customer |
| Bruce | Susan | Rep.'g MeadWestvaco Corporation | 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 |
| Bursaw | Chris | CP Energy Marketing (US) Inc. | Other Supplier |
| Canter | David | Appalachian Power Company | Transmission Owner |
| Davis | James | Virginia Electric & Power Company | Transmission Owner |
| Dugan | Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Evrard | David | Pennsylvania Office of Consumer Advocate | End-Use Customer |
| Fitch | Neal | NRG Power Marketing, LLC | Generation Owner |
| Ford | Adrien | Old Dominion Electric Cooperative | Electric Distributor |
| Fuess | Jay | Rep.'g Diamond State Generation Partners, LLC | Generation Owner |
| Fuess | Jay | Rep.'g Ictec.com, Inc. | Other Supplier |
| Fuess | Jay | Rep.'g Kuehne Chemical Company, Inc. | Other Supplier |
| Fuess | Jay | Rep.'g PBF Power Marketing, LLC | Generation Owner |

| Last Name | First Name | Company | Sector |
|------------|------------|---|----------------------|
| Garnett | Bryan | Duke Energy Business Services LLC | Transmission Owner |
| 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 |
| Helms | Joseph | Rainbow Energy Marketing Corporation | Other Supplier |
| Hoatson | Tom | Rep.'g Renaissance Power & Gas, Inc. | Other Supplier |
| Hoatson | Tom | Rep.'g Riverside Generating, LLC | Generation Owner |
| Hoatson | Tom | Rep.'g West Deptford Energy, LLC | Generation Owner |
| Hohenshilt | Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Horstmann | John | Dayton Power & Light Company (The) | Transmission Owner |
| Hurwich | Mark | Elliott Bay Energy Trading, LLC | Other Supplier |
| Hyzinski | Thomas | Dynegy Marketing and Trade, LLC | Generation Owner |
| Jardot | Gina | Essential Power Rock Springs, LLC | Transmission Owner |
| Johnson | Carl | Rep.'g Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Johnson | Carl | Rep.'g American Municipal Power, Inc. | Electric Distributor |
| 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 Old Dominion Electric Cooperative | 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 Energy Marketing LP | Other Supplier |
| Kilgallen | Kevin | Avangrid Renewables, LLC | Generation Owner |
| Kogut | George | New York Power Authority | Other Supplier |
| Lieberman | Steven | American Municipal Power, Inc. | Electric Distributor |
| Long | Scott | Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Melnyk | Markian | Atlantic Grid Operations A, LLC | Other Supplier |
| O'Boyle | Brian | Rockland Electric Company | Transmission Owner |
| O'Connell | Robert | PPGI Fund A/B Development, LLC. | Generation Owner |
| Pakela | Greg | DTE Energy Trading, Inc. | Other Supplier |
| Pelletier | Eveline | H.Q. Energy Services (U.S.), Inc. | Other Supplier |
| Philips | Marji | Direct Energy Business, LLC | Other Supplier |
| Philips | Marji | Rep.'g Newark Energy Center, LLC | Generation Owner |
| Picardi | Matthew | Shell Energy North America (US), L.P. | Other Supplier |
| Poulos | Greg | Rep.'g Consumer Protection and Advocate Division of the Tennessee Attorney General | End-Use Customer |
| Poulos | Greg | Rep.'g Delaware Division of the Public Advocate | End-Use Customer |
| Poulos | Greg | Rep.'g Illinois Citizen Utility Board | End-Use Customer |
| Poulos | Greg | Rep.'g Indiana Office of Utility Consumer Counselor (IN OUCC) | End-Use Customer |
| Poulos | Greg | Rep.'g Maryland Office of People's Counsel | End-Use Customer |
| Poulos | Greg | Rep.'g Michigan Department of Attorney General, Environment, Natural Resources, & Agriculture Division | End-Use Customer |
| Poulos | Greg | Rep.'g New Jersey Division of Rate Counsel | End-Use Customer |
| Poulos | Greg | Rep.'g Office of the Attorney General, Kentucky | End-Use Customer |
| Poulos | Greg | Rep.'g Office of the People's Counsel for the District of Columbia | End-Use Customer |
| Poulos | Greg | Rep.'g Ohio Consumers' Counsel | End-Use Customer |
| Poulos | Greg | Rep.'g Public Staff - North Carolina Utilities Commission | End-Use Customer |
| Poulos | Greg | Rep.'g Virginia Division of Consumer Counsel | End-Use Customer |
| Poulos | Greg | Rep.'g West Virginia Consumer Advocate Division | End-Use Customer |
| Pratzon | David | Rep.'g Eastern Generation, LLC | Generation Owner |
| Pratzon | David | Rep.'g Essential Power Rock Springs, LLC | Transmission Owner |
| Pratzon | David | Rep.'g Neptune Regional Transmission System, LLC | Transmission Owner |
| Pratzon | David | Rep.'g Wheelabrator Frackville Energy Co., Inc. | Generation Owner |
| Price | Dann | Enerwise Global Technologies, Inc. | Other Supplier |
| Prokop | Brenda | ITC Interconnection LLC | Transmission Owner |
| Rohrbach | John | Rep.'g Southern Maryland Electric Cooperative, Inc. | Electric Distributor |
| Rohrbach | John | Rep.'g 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 |
| Thomas | Amber | PPL Electric Utilities Corporation d/b/a PPL Utilities | Transmission Owner |

| Last Name | First Name | Company | Sector |
|-----------|------------|--|----------------------|
| Trayers | Barry | Citigroup Energy, Inc. | Other Supplier |
| 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 |
| Wicks | Tonja | Duquesne Light Company | Transmission Owner |

Non-Voting Participants

| Last Name | First Name | Company | Sector |
|---------------|------------|--|----------------------|
| Abend | Erik | Erik Abend Consulting | Not Applicable |
| Adams | Sean | PSEG Energy Resources and Trade LLC | Transmission Owner |
| Ainspan | Malcolm | Energy Curtailment Specialists, Inc. | Other Supplier |
| Barker | Jason | Exelon Business Services Company, LLC | Transmission Owner |
| Benchek | Jim | American Transmission Systems, Inc. | Transmission Owner |
| Bleiweis | Bruce | DC Energy LLC | Other Supplier |
| Bowring | Joe | Monitoring Analytics, LLC | Not Applicable |
| Brown | William | VECO Power Trading | Not Applicable |
| Carmean | Gregory | OPSI | Not Applicable |
| Chandler | Kent | Office of the Attorney General, Kentucky | End-Use Customer |
| Cocco | Michael | Old Dominion Electric Cooperative | Electric Distributor |
| Colbert | Cathleen | NRG Power Marketing LLC | Other Supplier |
| Cox | Phil | Appalachian Power Company | Transmission Owner |
| Crystle | Gil | UGI Development Company | Transmission Owner |
| D'Alessandris | Lou | FirstEnergy Corporation | Not Applicable |
| Delosa | Joseph | DE Public Service Commission | Not Applicable |
| Depillo | Raymond | PSEG Energy Resources and Trade LLC | Other Supplier |
| Dilorio | Michelle | PSEG Energy Resources and Trade LLC | Other Supplier |
| Dillon | Matthew | UGI Development Company | Generation Owner |
| Domian | Christin | Duquesne Light Company | Transmission Owner |
| Duensing | Allison | Saracen Energy East LP | Other Supplier |
| Filomena | Guy | Customized Energy Solutions, Ltd. | Not Applicable |
| Fuess | Christian | PBF Power Marketing LLC | Generation Owner |
| Gagen | Rod | Dominion Virginia Power | Not Applicable |
| Gahimer | Michael | IN Office of Utility Consumer Counselor | End-Use Customer |

| Last Name | First Name | Company | Sector |
|-------------|------------|--|----------------------|
| Gebolys | Debbie | Public Utilities Commission of Ohio (The) | Not Applicable |
| Gilani | Rehan | ConEdison Energy, Inc. | Other Supplier |
| Gramlich | Rob | Grid Strategies, LLC | Not Applicable |
| Greiner | Gary | PSEG Energy Resources and Trade LLC | Other Supplier |
| Grimes | Jordan | Morningstar Commodity Data | Not Applicable |
| Guerry | Katie | EnerNOC, Inc. | Other Supplier |
| Harmon | Mike | Union Electric Company d/b/a Ameren Missouri | Other Supplier |
| Harvey | Scott | FTI Consulting | Not Applicable |
| Hastings | David | Market Interconnection LLC | Not Applicable |
| Hayik | Seth | Monitoring Analytics, LLC | Not Applicable |
| Heinle | Frederick | Office of the People's Counsel for the District of Columbia | End-Use Customer |
| Helms | Joseph | Rainbow Energy Marketing Corporation | Other Supplier |
| Hohenshilt | Jennifer | Talen Energy Marketing, LLC | Generation Owner |
| Horning | Lynn Marie | LMH Energy | Not Applicable |
| Horstmann | John | Dayton Power & Light Company (The) | Transmission Owner |
| Horton | Dana | Appalachian Power Company | Transmission Owner |
| Hudis | Gabriella | Gabel Associates | Not Applicable |
| Hurwich | Mark | Elliott Bay Energy Trading, LLC | Other Supplier |
| Hyzinski | Tom | GT Power Group | Not Applicable |
| Janicki | Diane | Boston Energy Trading & Marketing, LLC | Generation Owner |
| Janssen | Robert | Kelson Energy | Not Applicable |
| Jardot | Gina | Essential Power Rock Springs, LLC | Transmission Owner |
| Jett | William | Duke Energy Business Services LLC | Generation Owner |
| Kauffman | Brian | Enel X North America, Inc. | Other Supplier |
| Kelly | Kyo | Southern Company Services, Inc. as agent for Alabama Power Co. | Other Supplier |
| Kerecman | Joseph | Calpine Energy Services, L.P. | Generation Owner |
| Knernschild | Jenjira | Old Dominion Electric Cooperative | Electric Distributor |
| Kupcinski | Candice | Atlantic City Electric Company | Electric Distributor |
| Logan | Sharon | The Federal Energy Regulatory Commission | Not Applicable |
| Long | Greg | AK Steel Corporation | End-Use Customer |
| Malguarera | Maria | AEP Energy, Inc. | Transmission Owner |
| Manganaro | Lynn | PSEG Energy Resources and Trade LLC | Transmission Owner |
| Marinelli | Richard | Public Service Electric & Gas Company | Transmission Owner |
| Martin | Valerie | The Federal Energy Regulatory Commission | Not Applicable |
| Marzewski | Skyler | Monitoring Analytics, LLC | Not Applicable |
| Matuszak | Alex | UGI Energy Services, LLC | Other Supplier |
| Merola | Becky | Calpine Energy Services, L.P. | Generation Owner |
| Midgley | Sharon | Exelon Business Services Company, LLC | Transmission Owner |
| Miller | John | Commonwealth Edison Company | Transmission Owner |

| Last Name | First Name | Company | Sector |
|--------------|------------|--|----------------------|
| Noewer | Sharon | FirstEnergy Corporation | Transmission Owner |
| Ondayko | Brock | Appalachain Power Company | Transmission Owner |
| Pakela | Greg | DTE Energy Trading, Inc. | Other Supplier |
| Pakula | Maggie | Invenergy, LLC | Generation Owner |
| Pelletier | Eveline | Hydro-Quebec | Not Applicable |
| Peoples | John | Duquesne Light Company | Transmission Owner |
| Picardi | Matt | Shell Energy North America (US), LP | Other Supplier |
| Price | Mark | DC Energy Mid-Atlantic, LLC | Other Supplier |
| Price | Ruth | Division of the Public Advocate of the State of Delaware | End-Use Customer |
| Raghavan | Vijay | BioUrja Power, LLC | Other Supplier |
| Rainey | Frank | PEI Power Corporation | Generation Owner |
| Ramsey | James | Suffolk Fund LLC | Other Supplier |
| Renda | Michael | VECO Power Trading, LLC | Other Supplier |
| Roberts | Casey | Sierra Club | Not Applicable |
| Robinson | Kathleen | Land O'Lakes, Inc. | End-Use Customer |
| Robson | Matt | SESCO Enterprises LLC | Other Supplier |
| Russ | Michael | Dayton Power & Light Company (The) | Transmission Owner |
| Saini | Ishwar | Macquarie Energy LLC | Other Supplier |
| Sawka | Justin | Exelon Generation Co., LLC | Generation Owner |
| Segner | Sharon | LS Power Transmission, LLC | Not Applicable |
| Shanker | Roy | H.Q. Energy Services (U.S.), Inc. | Other Supplier |
| Sidhom | Noha | Inertia Power I, LLC | Other Supplier |
| Silverthorne | Eric | Exelon Generation Co., LLC | Generation Owner |
| Squibb | Bill | Ohio Valley Electric | Generation Owner |
| Stancombe | Corey | Duke Energy Kentucky, Inc. | Transmission Owner |
| Stern | Alexander | Public Service Electric & Gas Company | Transmission Owner |
| Stewart | Travis | Gabel Associates | Not Applicable |
| Stone | Andy | Gabel Associates | Not Applicable |
| Sturgeon | John | Duke Energy Carolinas, LLC | Other Supplier |
| Sweeney | Rory | RTO Insider | Not Applicable |
| Tangirala | Subha | ABB | Not Applicable |
| Thompson | Matt | XO Energy MA, LP | Other Supplier |
| Tibbetts | Maeve | Pierce Atwood | Not Applicable |
| Toomey | Megan | Talen Energy Marketing, LLC | Generation Owner |
| Vargo | Daniel | Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Vayda | Brian | Borough of Park Ridge, NJ | Electric Distributor |
| Wadsworth | Joseph | Vitol Inc. | Other Supplier |
| Walker | Jennifer | Exelon Business Services Company, LLC | Transmission Owner |
| Whitehead | Jeffrey | GT Power Group | Not Applicable |

| Last Name | First Name | Company | Sector |
|-----------|------------|--|--------------------|
| Wicks | Tonja | Duquesne Light Company | Transmission Owner |
| Wilcox | Evan | Appalachian Power Company | Transmission Owner |
| Wilson | Bram | Diamond State Generation Partners, LLC | Generation Owner |
| Wilson | James | Wilson Energy Economics | Not Applicable |

PJM Participants

| Last Name | First Name | Company | Sector |
|-------------|------------|--------------------------|----------------|
| Baker | Scott | PJM Interconnection, LLC | Not Applicable |
| Barrett | Francis | PJM Interconnection, LLC | Not Applicable |
| Bastian | Jeff | PJM Interconnection, LLC | Not Applicable |
| Bazar | Kevin | PJM Interconnection, LLC | Not Applicable |
| Berner | Aaron | 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 | Josh | PJM Interconnection, LLC | Not Applicable |
| Bryson | Mike | 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 |
| Caven | Augustine | 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 |
| Cummings | Bridgid | PJM Interconnection, LLC | Not Applicable |
| Davis | Elizabeth | PJM Interconnection, LLC | Not Applicable |
| DeVita | Thomas | PJM Interconnection, LLC | Not Applicable |
| Dirani | Rami | 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 |
| Edgar-Smith | Collin | PJM Interconnection, LLC | Not Applicable |
| Egan | Amanda | PJM Interconnection, LLC | Not Applicable |
| Endress | Eric | PJM Interconnection, LLC | Not Applicable |
| Fabiano | Janell | PJM Interconnection, LLC | Not Applicable |
| Fernandes | Anisha | PJM Interconnection, LLC | Not Applicable |
| Fernandez | Ray | PJM Interconnection, LLC | Not Applicable |

| Last Name | First Name | Company | Sector |
|---------------|------------|--------------------------|----------------|
| Fitzpatrick | Brian | PJM Interconnection, LLC | Not Applicable |
| Foley | Sheila | PJM Interconnection, LLC | Not Applicable |
| Foster | Denise | PJM Interconnection, LLC | Not Applicable |
| Franks | Chris | PJM Interconnection, LLC | Not Applicable |
| Glatz | Suzanne | PJM Interconnection, LLC | Not Applicable |
| Glazer | Craig | PJM Interconnection, LLC | Not Applicable |
| Hauske | Tom | PJM Interconnection, LLC | Not Applicable |
| Herling | Steve | PJM Interconnection, LLC | Not Applicable |
| Hoang | Len | 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 |
| Hugee | Jacquelynn | PJM Interconnection, LLC | Not Applicable |
| Kappagantula | Srinivas | PJM Interconnection, LLC | Not Applicable |
| Keech | Adam | PJM Interconnection, LLC | Not Applicable |
| Kelley | Michael | PJM Interconnection, LLC | Not Applicable |
| Kenney | Susan | PJM Interconnection, LLC | Not Applicable |
| Keshavamurthy | Bhavana | PJM Interconnection, LLC | Not Applicable |
| Kimmel | David | PJM Interconnection, LLC | Not Applicable |
| Krizenoskas | Lisa | PJM Interconnection, LLC | Not Applicable |
| Langbein | Pete | PJM Interconnection, LLC | Not Applicable |
| Larocque | Matthew | PJM Interconnection, LLC | Not Applicable |
| Lee | Jin | PJM Interconnection, LLC | Not Applicable |
| Long | Amanda | PJM Interconnection, LLC | Not Applicable |
| Long | Glenn | PJM Interconnection, LLC | Not Applicable |
| Loomis | Hal | PJM Interconnection, LLC | Not Applicable |
| Lu | Chen | PJM Interconnection, LLC | Not Applicable |
| Manion | Evelyn | PJM Interconnection, LLC | Not Applicable |
| Marcino | Angelo | PJM Interconnection, LLC | Not Applicable |
| McGill | Susan | PJM Interconnection, LLC | Not Applicable |
| McGlynn | Paul | PJM Interconnection, LLC | Not Applicable |
| McLavery | Megan | PJM Interconnection, LLC | Not Applicable |
| Monzon | Stephanie | PJM Interconnection, LLC | Not Applicable |
| Morelli | Lisa | PJM Interconnection, LLC | Not Applicable |
| Niemeyer | Jay | PJM Interconnection, LLC | Not Applicable |
| O'Neill | Jack | PJM Interconnection, LLC | Not Applicable |
| Ott | Andrew | PJM Interconnection, LLC | Not Applicable |
| Patel | Keyurbhai | PJM Interconnection, LLC | Not Applicable |
| Patt | Kate | PJM Interconnection, LLC | Not Applicable |

| Last Name | First Name | Company | Sector |
|-------------|------------|--------------------------|----------------|
| Phillips | Darlene | PJM Interconnection, LLC | Not Applicable |
| Pilong | Chris | PJM Interconnection, LLC | Not Applicable |
| Ritchie | Sandra | PJM Interconnection, LLC | Not Applicable |
| Rocha | Patricio | PJM Interconnection, LLC | Not Applicable |
| Rogers | Sarah | 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 |
| Shah | Vijay | PJM Interconnection, LLC | Not Applicable |
| Souder | Michelle | PJM Interconnection, LLC | Not Applicable |
| Stadlmeyer | Rebecca | PJM Interconnection, LLC | Not Applicable |
| Stefanowicz | Vince | PJM Interconnection, LLC | Not Applicable |
| Swimm | Nora | PJM Interconnection, LLC | Not Applicable |
| Tacka | Natalie | PJM Interconnection, LLC | Not Applicable |
| Tribulski | Jen | PJM Interconnection, LLC | Not Applicable |
| Velasco | Cheryl | PJM Interconnection, LLC | Not Applicable |
| Ward | Michael | PJM Interconnection, LLC | Not Applicable |
| Williams | Stan | PJM Interconnection, LLC | Not Applicable |
| Xu | Xu | PJM Interconnection, LLC | Not Applicable |
| Zhenyu | Fan | PJM Interconnection, LLC | Not Applicable |