

## Markets & Reliability Committee

### Webex Only

January 26, 2022

9:00 a.m. – 12:30 p.m. EPT

### Administration

Stu Bresler and Dave Anders welcomed stakeholders and provided the Anti-trust, Code of Conduct, and Meeting Participation announcements.

Amanda Egan provided an update on the need for voting members to update their browser's transport layer security (TLS) version due to weak encryption and its impact on the Voting Application.

### Consent Agenda

Items A & B were **approved/endorsed** by acclamation with no objections or abstentions:

- A. Draft Minutes of the December 15, 2021 meeting of the Markets and Reliability Committee (MRC).
- B. Proposed revisions to Manual 38: Operations Planning resulting from its periodic review.

### Endorsements

#### 1. Enhancements to Dead Bus Replacement Logic

Vijay Shah reviewed conforming revisions to Manual 11: Energy and Ancillary Services Market Operations addressing enhancements to the Dead Bus Replacement logic for assigning prices to de-energized pricing nodes. Following discussion, the proposed revisions were **endorsed** by acclamation with no objections or abstentions.

#### 2. Fuel Cost Policy Standards and Schedule 2 Penalties

Melissa Pulong reviewed the PJM/IMM Package elaborating upon and addressing clarifications to Fuel Cost Policy standards and Schedule 2 Penalty revisions. Following discussion, the proposal was **endorsed** by acclamation with no objections and two abstentions.

#### 3. Regulation for Virtual Combined Cycles

Michael Olaley reviewed the proposed solution addressing Regulation for Virtual Combined Cycles. Following discussion, the proposed solution was **endorsed** by acclamation with no objections or abstentions.

[Issue Tracking: Regulation for Virtual Combined Cycles](#)

#### 4. Resource Adequacy Senior Task Force (RASTF) Issue Charge

- A. Pat Bruno reviewed a proposed Issue Charge endorsed by the RASTF and discussed proposed updates based on the recent FERC order and alignment with the approved charter for the task force. Adrien Ford, ODEC, proposed two amendments:
- Removal of the chart containing auction and consensus check-in dates and related discussion in the preceding paragraph, due to the recent change in the auction schedules and the potential for future changes (note that the concept of consensus check-ins timed with auction dates is retained).
  - Alignment of the deliverable expectations for Key Work Activity #1 with those in the RASTF Charter, removing from the Issue Charge the requirement to determine by the end of the first quarter of 2022 the specific market in which to implement procurement of clean resource attributes or the social cost of carbon.

There were no objections to these proposed amendments, and therefore they were incorporated into the Issue Charge.

- B. Bruce Campbell, C Power, and Brian Kauffman, Enel X North America, discussed perspectives regarding DR as a supply resource, supporting the RASTF endorsed draft issue charge as amended.
- C. Steve Lieberman, AMP, proposed and Paul Sotkiewicz, Elwood Energy, seconded, an alternative RASTF Issue Charge.

Following discussion, the main motion was **approved** in a sector-weighted vote with 3.08 (note that in accordance with Manual 34: PJM Stakeholder Process, the threshold for approval of an Issue Charge is simple majority, or 2.500 in a sector-weighted vote).

## 5. Max Emergency Correction for Gas Combustion Turbines

Chris Pilog reviewed proposed revisions to Manual 13: Emergency Operations addressing a temporary change to Max Emergency requirements for gas CTs, noting that endorsement was being sought upon at first read. Following discussion, the proposed revisions were **endorsed** by acclamation with no objections and three abstentions.

## First Readings

### 6. Manuals

- A. Rebecca Stadelmeyer reviewed proposed conforming revisions to Manual 27: Open Access Transmission Tariff Accounting resulting from PJM's recent formula rate filing (Docket No. ER22-26). The committee will be asked to endorse the proposed revisions at its next meeting.
- B. Benjamin Miller reviewed proposed revisions to Manual 40: Training and Certification Requirements resulting from its periodic review. The committee will be asked to endorse the proposed revisions at its next meeting.

## Informational Reports

### 7. Addressing Defaulting Member's Financial Transmission Rights

Nigeria Bloczynski, Tim Horger, Chris O'Hara and Lisa Drauschak provided an update regarding the Hill Energy default and sought member input on options for addressing the defaulted FTR portfolio.

## Future Agenda Items

No new future agenda items were identified.

Future Meeting Dates and Materials			Materials Due to Secretary	Materials Published
Date	Time	Location		
<i>February 24, 2022</i>	9:00 a.m.	Webex	February 14, 2022	February 17, 2022
<i>March 23, 2022</i>	9:00 a.m.	Webex	March 11, 2022	March 16, 2022
<i>April 27, 2022</i>	9:00 a.m.	Webex	April 15, 2022	April 20, 2022
<i>May 25, 2022</i>	9:00 a.m.	PJM Conference & Training Center	May 13, 2022	May 18, 2022
<i>June 29, 2022</i>	9:00 a.m.	PJM Conference & Training Center	June 17, 2022	June 22, 2022

Author: D. Anders

## Meeting Attendance

### Chair/Secretary

Last Name	First Name	Company	Sector
Bresler	Stu	PJM Interconnection, LLC	Not Applicable
Anders	David	PJM Interconnection, LLC	Not Applicable

### Voting Attendees

Last Name	First Name	Company	Sector
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner
Benckek	Jim	American Transmission Systems, Inc.	Transmission Owner
Berrien	SaLisa	COI Energy Services, Inc.	Other Supplier
Bleiweis	Bruce	DC Energy, LLC	Other Supplier
Borgatti	Michael	Energy Harbor LLC	Generation Owner
Borgatti	Michael	Hazleton Generation LLC	Generation Owner
Borgatti	Michael	Jersey Green Energy, LLC	Other Supplier
Borgatti	Michael	Leeward Asset Management, LLC	Generation Owner
Borgatti	Michael	Longview Power, LLC	Generation Owner
Borgatti	Michael	Moxie Freedom LLC	Generation Owner
Borgatti	Michael	Newark Energy Center, LLC	Generation Owner
Borgatti	Michael	NextEra Energy Marketing, LLC	Other Supplier
Borgatti	Michael	Recurrent Energy, LLC	Other Supplier
Borgatti	Michael	York County Solid Waste and Refuse Authority	Generation Owner

Breidenbaugh	Aaron	Centrica Business Solutions Optimize, LLC	Other Supplier
Brodbeck	John	EDP Renewables North America LLC	Generation Owner
Bruce	Susan	Air Products & Chemicals, Inc.	End-Use Customer
Bruce	Susan	Cleveland-Cliffs Steel LLC	End-Use Customer
Bruce	Susan	Gerdau Ameristeel Energy, Inc.	End-Use Customer
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 Inc.	End-Use Customer
Bruce	Susan	MeadWestvaco Corporation	End-Use Customer
Bruce	Susan	Messer LLC	End-Use Customer
Bruce	Susan	Procter & Gamble Paper Products Company (The)	End-Use Customer
Bruce	Susan	Trustees of the University of Pennsylvania	End-Use Customer
Bruce	Susan	Wellsboro Electric Company	Electric Distributor
Campbell	Bruce	MidAtlantic Power Partners, LLC	Other Supplier
Canter	David	Appalachian Power Company	Transmission Owner
Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Davis	James	Virginia Electric & Power Company	Transmission Owner
Domian	Christin	Duquesne Light Company	Transmission Owner
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fazio	Danielle	Engelhart CTP (US) LLC	Other Supplier
Fishback	Luke	Affirmed Energy LLC	Other Supplier
Foladare	Kenneth	Geenex Solar LLC	Other Supplier
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Fuess	Christian	Diamond State Generation Partners, LLC	Generation Owner
Fuess	Christian	Icetek.com, Inc.	Other Supplier
Fuess	Christian	Kuehne Chemical Company, Inc.	End-Use Customer
Fuess	Christian	NextPower III US Holdco Inc.	Generation Owner
Fuess	Christian	PBF Power Marketing, LLC	End-Use Customer
Garnett	Bryan	Duke Energy Business Services LLC	Transmission Owner
Hoatson	Tom	Riverside Generating Company, L.L.C.	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	Carroll County Energy LLC	Generation Owner
Hyzinski	Thomas	Dynegy Marketing and Trade, LLC	Generation Owner
Hyzinski	Thomas	GenOn Energy Management, LLC	Generation Owner
Islam	Lubaba	Rockland Electric Company	Transmission Owner
Jardot	Gina	NRG Power Marketing LLC	Generation Owner
Johnson	Carl	Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson	Carl	Borough of Chambersburg	Electric Distributor
Johnson	Carl	Borough of Mont Alto, Pennsylvania	Electric Distributor

Johnson	Carl	Buckeye Power, Inc.	Electric Distributor
Johnson	Carl	Central Virginia Electric Cooperative	Electric Distributor
Johnson	Carl	City of Dover, Delaware	Electric Distributor
Johnson	Carl	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Johnson	Carl	Easton Utilities Commission	Electric Distributor
Johnson	Carl	Energy Cooperative Association of Pennsylvania (The)	Other Supplier
Johnson	Carl	Galt Power, Inc.	Other Supplier
Johnson	Carl	Hagerstown Light Department	Electric Distributor
Johnson	Carl	Illinois Municipal Electric Agency	Electric Distributor
Johnson	Carl	Indiana Municipal Power Agency	Electric Distributor
Johnson	Carl	Michigan Public Power Agency	Electric Distributor
Johnson	Carl	North Carolina Electric Membership Corporation	Electric Distributor
Johnson	Carl	North Carolina Municipal Power Agency Number 1	Other Supplier
Johnson	Carl	Northern Illinois Municipal Power Agency	Electric Distributor
Johnson	Carl	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson	Carl	Thurmont Municipal Light Company	Electric Distributor
Johnson	Carl	Town of Williamsport (The)	Electric Distributor
Johnson	Carl	WPPI Energy	Other Supplier
Kauffman	Brian	Enel X North America, Inc.	Other Supplier
Keenan	Matthew	Elwood Energy, LLC	Generation Owner
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Pakela	Greg	DTE Energy Trading, Inc.	Other Supplier
Pelletier	Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Poulos	Greg	Consumer Protection and Advocate Division of the Tennessee Attorney General	End-Use Customer
Poulos	Greg	Delaware Division of the Public Advocate	End-Use Customer
Poulos	Greg	Illinois Citizen Utility Board	End-Use Customer
Poulos	Greg	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Poulos	Greg	Maryland Office of People's Counsel	End-Use Customer
Poulos	Greg	Michigan Department of Attorney General, Environment, Natural Resources, & Agriculture Division	End-Use Customer
Poulos	Greg	New Jersey Division of Rate Counsel	End-Use Customer
Poulos	Greg	Office of the 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	Pennsylvania Office of Consumer Advocate	End-Use Customer
Poulos	Greg	Public Staff - North Carolina Utilities Commission	End-Use Customer
Poulos	Greg	Virginia Division of Consumer Counsel	End-Use Customer
Poulos	Greg	West Virginia Consumer Advocate Division	End-Use Customer
Rohrbach	John	Big Savage, LLC	Generation Owner
Rohrbach	John	Kentucky Municipal Energy Agency	Electric Distributor

Rohrbach	John	Southern Maryland Electric Cooperative, Inc.	Electric Distributor
Rohrbach	John	Wabash Valley Power Association, Inc.	Electric Distributor
Rumsey	Amanda	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Scarpignato	David	Calpine Energy Services, L.P.	Generation Owner
Skucas	Ruta	Alphataraxia Palladium LLC	Other Supplier
Skucas	Ruta	Ames Energy, LLC	Other Supplier
Skucas	Ruta	Big Bend Trading, LLC	Other Supplier
Skucas	Ruta	BJ Energy, LLC	Other Supplier
Skucas	Ruta	Boston Energy Group, Inc.	Other Supplier
Skucas	Ruta	Greene Energy NE LLC	Other Supplier
Skucas	Ruta	Hexis Energy Trading, LLC	Other Supplier
Skucas	Ruta	MAG Energy Solutions, Inc.	Other Supplier
Skucas	Ruta	Monterey MA LLC	Other Supplier
Skucas	Ruta	Precept Power LLC	Other Supplier
Skucas	Ruta	Pure Energy, Inc.	Other Supplier
Skucas	Ruta	Red Wolf TX2, LLC	Other Supplier
Skucas	Ruta	Taller Cube, LLC	Other Supplier
Skucas	Ruta	Velocity American Energy Master I, L.P.	Other Supplier
Skucas	Ruta	XO Energy MA, L.P.	Other Supplier
Stern	Alex	Public Service Electric & Gas Company	Transmission Owner
Swalwell	Bradley	Tangent Energy Solutions, Inc.	Other Supplier
Vayda	Brian	Borough of Butler, Butler Electric Division	Electric Distributor
Vayda	Brian	Borough of Lavallette, New Jersey	Electric Distributor
Vayda	Brian	Borough of Madison, New Jersey	Electric Distributor
Vayda	Brian	Borough of Milltown, New Jersey	Electric Distributor
Vayda	Brian	Borough of Park Ridge, New Jersey	Electric Distributor
Vayda	Brian	Borough of Pemberton, New Jersey	Electric Distributor
Vayda	Brian	Borough of Seaside Heights, New Jersey	Electric Distributor
Vayda	Brian	Borough of South River, New Jersey	Electric Distributor
Vayda	Brian	Vineland Municipal Electric Utility	Electric Distributor
Wadsworth	Joe	Vitol Inc.	Generation Owner
Wannop	Allison	Voltus, Inc.	Other Supplier
White	Brett	Pine Gate Mid-Atlantic, LLC	Other Supplier
Whitehead	Jeffrey	Eastern Generation, LLC	Generation Owner
Whitehead	Jeffrey	Essential Power Rock Springs, LLC	Generation Owner
Whitehead	Jeffrey	Neptune Regional Transmission System, LLC	Transmission Owner
Whitehead	Jeffrey	Wheeler Falls Inc.	Generation Owner

### Non-Voting Attendees

Last Name	First Name	Company	Sector
Abed	Abbas	Innergex Renewable USA LLC	Generation Owner
Abramowitz	Jeremy	Monitoring Analytics, LLC	Not Applicable
Adams	Sean	Public Service Electric & Gas Company	Transmission Owner

Anderson	Jared	Platts	Not Applicable
Bainbridge	Tom	American Transmission Systems, Inc.	Transmission Owner
Berton	Tyler	Appalachian Power Company	Transmission Owner
Borun	Larry	Illinois Commerce Commission	Not Applicable
Bowring	Joe	Monitoring Analytics, LLC	Not Applicable
Brady	George	Ohio Valley Electric Corporation	Transmission Owner
Bruce	Campbell	Enerwise Global Technologies, LLC	Other Supplier
Burnham	Kat	Advanced Energy Economy	Not Applicable
Callen	Zac	The Illinois Commerce Commission	Not Applicable
Carmean	Gregory	Organization of PJM States, Inc. (OPSI)	Not Applicable
Carrier	Ron	Big Lake Consulting Group	Not Applicable
Carry	Anton	District of Columbia Public Service Commission	Not Applicable
Chintapalli	Raj	BP Energy Company	Other Supplier
Christopher	Mahila	The Public Utilities Commission Of Ohio	Not Applicable
Clark	Alben	DC Energy, LLC	Other Supplier
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Colaresi	Chandra	Cpower	Not Applicable
Corash	Rich	Public Service Electric & Gas Company	Transmission Owner
Delosa	Joe	New Jersey Board Of Public Utilities	Not Applicable
Denby	Brett	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Dillon	Matt	UGI Development Company	Generation Owner
Ding	Jenny	DC Energy, LLC	Other Supplier
Dorko	Keri	Monitoring Analytics, LLC	Not Applicable
Drom	Rick	Affirmed Energy LLC	Other Supplier
Duensing	Allison	Saracen Energy East LP	Other Supplier
Eaker	Katie	Tenaska Power Services Co.	Generation Owner
Ericson	Christine	Illinois Commerce Commission	Not Applicable
Evrard	David	Pennsylvania Office of Consumer Advocate	End-Use Customer
Fazio	Danielle	Engelhart CTP (US) LLC	Other Supplier
Feller	John	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fink	Regan	Pine Gate Mid-Atlantic, LLC	Other Supplier
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Foster	Denise	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fuerst	Gary	American Transmission Systems, Inc.	Transmission Owner
Fuess	Christian	PBF Power Marketing, LLC	End-Use Customer
Fuess	Christian	PBF Power Marketing, LLC	End-Use Customer
Gates	Terry	Appalachian Power Company	Transmission Owner
Gebolys	Debbie	The Public Utilities Commission Of Ohio	Not Applicable
Gerit	Hull	American Municipal Power, Inc.	Electric Distributor
Gibbs	Ike	Citadel FNGE Ltd.	Other Supplier
Gilani	Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Good	Megan	Pennsylvania Public Utility Commission	Not Applicable

Goodstein	Jon	DC Energy, LLC	Other Supplier
Gorman	Brad	American Transmission Systems, Inc.	Transmission Owner
Gorman	Kevin	The Highlands Energy Group, LLC	Other Supplier
Grau	Patrick	Apogee Energy Trading LLC	Other Supplier
Greene	Ben	Appalachian Power Company	Transmission Owner
Guntle	Vince	American PowerNet Management, L.P.	End-Use Customer
Hanser	Erik	Michigan Public Service Commission	Not Applicable
Hastings	David	Dhast Co.	Not Applicable
Hehir	Flannan	Appian Way Energy Partners MidAtlantic, LLC	Other Supplier
Heinle	Erik	Office of the People's Counsel for the District of Columbia	End-Use Customer
Helms	Joe	Tyr Energy, LLC	Other Supplier
Hepplewhite	Peter	Wrigley Capital LLC	Other Supplier
Herbert	Sebastian	DC Energy, LLC	Other Supplier
Hicks	Dave	Perast Fund LP	Other Supplier
Horning	Lynn	Customized Energy Solutions, Ltd.	Not Applicable
Hudis	Gabriella	Gabel Associates	Not Applicable
Hugee	Jacquelynn	Virginia Electric & Power Company	Transmission Owner
Hull	Gerit	American Municipal Power, Inc.	Electric Distributor
Huntoon	Steve	Chesapeake Transmission LLC	Other Supplier
James	Solom	DC Energy, LLC	Other Supplier
Jett	William	Duke Energy Business Services LLC	Transmission Owner
Johns	Lucas	DC Energy, LLC	Other Supplier
Johnson	Ryan	Appalachian Power Company	Transmission Owner
Johnston	David	Indiana Utility Regulatory Commission	Not Applicable
Kayne	Samuel	Delaware Public Service Commission	Not Applicable
Kennedy	Monique	Engelhart CTP (US) LLC	Other Supplier
Kent	Janessa	Duquesne Light Company	Transmission Owner
Kirk	Ryan	Appalachian Power Company	Transmission Owner
Kuhn	Tyler	Citadel FNGE Ltd.	Other Supplier
Kuo	David	DC Energy, LLC	Other Supplier
Laios	Takis	Appalachian Power Company	Transmission Owner
Lamp	Jeff	Peak Energy Capital LP	Other Supplier
Lawson	Ryen	Virginia Electric & Power Company	Transmission Owner
Liang-Nicol	Cecilia	American Transmission Systems, Inc.	Transmission Owner
Libbos	Robin	American Transmission Systems, Inc.	Transmission Owner
Mabry	David	McNees, Wallace & Nurick, LLC	Not Applicable
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	End-Use Customer
Markiewicz	Cindy	American Transmission Systems, Inc.	Transmission Owner
Markiewicz	Cindy	American Transmission Systems, Inc.	Transmission Owner
Martin	Valerie	FERC	Not Applicable
Martin	Valery	FERC	Not Applicable
Martins	Erom	Engelhart CTP (US) LLC	Other Supplier
Matheson	Eric	Delaware Public Service Commission	Not Applicable

Matuszak	Alex	UGI Energy Services, LLC	Other Supplier
Mcclelland	Maura	Puco	Not Applicable
Modewell	Christian	The Public Utilities Commission Of Pennsylvania	Not Applicable
Mcneil	Justin	Kentucky Public Service Commission	Not Applicable
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Miller	John	Commonwealth Edison Company	Transmission Owner
Minalga	Jason	Pine Gate Mid-Atlantic, LLC	Other Supplier
Mooney	Jeff	American Transmission Systems, Inc.	Transmission Owner
Moye	Bob	Tyr Energy, LLC	Other Supplier
Nader	Jordan	Public Staff Of North Carolina	End-Use Customer
Neubrandner	Kerry	DC Energy, LLC	Other Supplier
Nix	Emma	Gabel Associates	Not Applicable
Okenfuss	James	Savion, LLC	Not Applicable
Olinger	Robert	Gen Ops, LLC	Other Supplier
Oluwabiya	Jimmy	American Transmission Systems, Inc.	Transmission Owner
Ondayko	Brock	Appalachian Power Company	Transmission Owner
Orphanides	Lindsay	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Patel	Pooja	Calpine Energy Solutions, LLC	Other Supplier
Patel	Anjali	CPV Maryland, LLC	Generation Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Price	Mark	DC Energy, LLC	Other Supplier
Price	Ruth	Delaware Division of the Public Advocate	End-Use Customer
Priyadarshi	Saket	Engelhart CTP (US) LLC	Other Supplier
Procutiar	Jason	Buckeye Power, Inc.	Electric Distributor
Raghaban	Vijay	Geodesic 2 LLC	Other Supplier
Raghavan	Vijay	Geodesic 2 LLC	Other Supplier
Rahimi	Farrokh	OPEN ACCESS TECHNOLOGY INTERNATIONAL, INC.	Not Applicable
Ramsey	James	Perast Fund LP	Other Supplier
Rattansai	Aliraze	American Transmission Systems, Inc.	Transmission Owner
Redwine	Arlo	FERC	Not Applicable
Reeping	Bob	American Transmission Systems, Inc.	Transmission Owner
Roberts	Jackie	West Virginia Public Service Commission	Not Applicable
Robinson	Becky	Vistra	Not Applicable
Rodriguez	Tomas	Organization of PJM States, Inc. (OPSI)	Not Applicable
Rodriguez	Tomas	Organization of PJM States, Inc. (OPSI)	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.	Not Applicable
Schmitt	David	New Jersey Board Of Public Utilities	Not Applicable
Schreim	Morris	Maryland Public Service Commission	Not Applicable
Schroeder	Connie	Virginia Electric & Power Company	Transmission Owner
Shanker	Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Skumanich	Bill	RTR Energy Solutions LLC	Not Applicable
Sotkiewicz	Paul	E-Cubed Policy Associates	Not Applicable
Squibb	Bill	Ohio Valley Electric Corporation	Transmission Owner

Stone	Andy	Gabel Associates	Not Applicable
Stuchell	Jeff	American Transmission Systems, Inc.	Transmission Owner
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Suh	Jung	Calpine Energy Solutions, LLC	Other Supplier
Sun	Jack	Saugatuck River Power Trading LLC	Other Supplier
Svenson	Heahter	Public Service Electric & Gas Company	Transmission Owner
Sweeney	Rory	GT Power Group, LLC	Not Applicable
Thomas	Amber	Exelon Business Services Company, LLC	Transmission Owner
Thompson	Matthew	XO Energy MA, L.P.	Other Supplier
Thundiyl	Kevin	Exelon Business Services Company, LLC	Transmission Owner
Tibbetts	Maeve	K&L Gates	Not Applicable
Vargo	Daniel	Allegheny Electric Cooperative	Electric Distributor
Walcavich	Colin	National Grid Renewables Development, LLC	Not Applicable
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Wang	Claire	Wrigley Capital LLC	Other Supplier
Wehnes	Kathleen	Maryland Department Of The Environment	Not Applicable
Whitehead	Jeff	GT Power Group, LLC	Not Applicable
Willey	Amy	Delaware Public Service Commission	Not Applicable
Wilson	Rob	Illinois Municipal Electric Agency	Electric Distributor
Wilson	James	Wilson Energy Economics	Not Applicable
Wolfe	Lauren	Essential Power Rock Springs, LLC	Generation Owner
Yochelson	Cheri	Virginia Electric & Power Company	Transmission Owner
Yoder	Michael	RTO Insider	Not Applicable
Zhang	Gary	Engelhart CTP (US) LLC	Other Supplier

### PJM Attendees

Last Name	First Name	Company Name	Sector
Abdulsalam	Sami	PJM Interconnection, LLC	Not Applicable
Anders	Dave	PJM Interconnection, LLC	Not Applicable
Asthana	Manu	PJM Interconnection, LLC	Not Applicable
Baker	Scott	PJM Interconnection, LLC	Not Applicable
Blackwell	Terry	PJM Interconnection, LLC	Not Applicable
Bloczynski	Nigeria	PJM Interconnection, LLC	Not Applicable
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Bresler	Stu	PJM Interconnection, LLC	Not Applicable
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Bryson	Michael	PJM Interconnection, LLC	Not Applicable
Buehler	Susan	PJM Interconnection, LLC	Not Applicable
Burdis	Tim	PJM Interconnection, LLC	Not Applicable
Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Chmielewski	Brian	PJM Interconnection, LLC	Not Applicable
Connell	Jason	PJM Interconnection, LLC	Not Applicable
Croop	Danielle	PJM Interconnection, LLC	Not Applicable

D'Antonio	Phil	PJM Interconnection, LLC	Not Applicable
Davies	Leah	PJM Interconnection, LLC	Not Applicable
Dent	Duane	PJM Interconnection, LLC	Not Applicable
Devita	Thomas	PJM Interconnection, LLC	Not Applicable
Drauschak	Lisa	PJM Interconnection, LLC	Not Applicable
Dropkin	Iyana	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
Feng	Julian	PJM Interconnection, LLC	Not Applicable
Fitzpatrick	Brian	PJM Interconnection, LLC	Not Applicable
Foley	Sheila	PJM Interconnection, LLC	Not Applicable
Gates	Jill	PJM Interconnection, LLC	Not Applicable
Glazer	Craig	PJM Interconnection, LLC	Not Applicable
Gluck	Jim	PJM Interconnection, LLC	Not Applicable
Graf	Walter	PJM Interconnection, LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Guistwhite	Jeff	PJM Interconnection, LLC	Not Applicable
Haque	Asim	PJM Interconnection, LLC	Not Applicable
Hauske	Thomas	PJM Interconnection, LLC	Not Applicable
Helm	Gary	PJM Interconnection, LLC	Not Applicable
Hicks	Colleen	PJM Interconnection, LLC	Not Applicable
Hoang	Liem	PJM Interconnection, LLC	Not Applicable
Horger	Timothy	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Keech	Adam	PJM Interconnection, LLC	Not Applicable
Kovler	Ed	PJM Interconnection, LLC	Not Applicable
Levitt	Andrew	PJM Interconnection, LLC	Not Applicable
Lockwood	Dan	PJM Interconnection, LLC	Not Applicable
Lu	Chen	PJM Interconnection, LLC	Not Applicable
Luska	Kirsten	PJM Interconnection, LLC	Not Applicable
McElwaine	Kathy	PJM Interconnection, LLC	Not Applicable
McGlynn	Paul	PJM Interconnection, LLC	Not Applicable
McLavery	Megan	PJM Interconnection, LLC	Not Applicable
Miller	Benjamin	PJM Interconnection, LLC	Not Applicable
Mills	David	PJM Interconnection, LLC	Not Applicable
Muhl	Nancy	PJM Interconnection, LLC	Not Applicable
O'Hara	Christopher	PJM Interconnection, LLC	Not Applicable
Olaleye	Michael	PJM Interconnection, LLC	Not Applicable
Patel	Anita	PJM Interconnection, LLC	Not Applicable
Patel	Keyur	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Pilong	Melissa	PJM Interconnection, LLC	Not Applicable

Pincus	Steven	PJM Interconnection, LLC	Not Applicable
Robinson	Evelyn	PJM Interconnection, LLC	Not Applicable
Rodriguez	Ricardo	PJM Interconnection, LLC	Not Applicable
Salmon	Lisa	PJM Interconnection, LLC	Not Applicable
Scheirer	Alex	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
Snow	Jim	PJM Interconnection, LLC	Not Applicable
Souder	Dave	PJM Interconnection, LLC	Not Applicable
Souder	Michelle	PJM Interconnection, LLC	Not Applicable
Stadelmeyer	Rebecca	PJM Interconnection, LLC	Not Applicable
Swimm	Nora	PJM Interconnection, LLC	Not Applicable
Tribulski	Jennifer	PJM Interconnection, LLC	Not Applicable
Wynder	Michael	PJM Interconnection, LLC	Not Applicable
Zhang	Michael	PJM Interconnection, LLC	Not Applicable