



Markets and Reliability Committee
PJM Conference & Training Center, Valley Forge, PA
May 26, 2016
9:30 a.m. – 3:00 p.m. EPT

#### Administration (9:30-9:35)

Ms. Suzanne Daugherty welcomed participants, and Mr. Dave Anders provided the antitrust and code of conduct announcements.

Mr. Stu Bresler discussed the results of the recently conducted 2019/20 Base Residual Auction. He noted that PJM will be performing scenario/sensitivity analysis on the results of the auction, and he requested that stakeholders submit any suggested scenarios to the RPM Hotline.

Mr. Adam Keech alerted stakeholders to actions they must take by May 31, 2016 regarding capacity resource day-ahead offers for June 1, 2016 and beyond.

#### Endorsements/Approvals (9:35-1:15)

#### 1. Draft Minutes (9:35-9:40)

Minutes of the April 28, 2016 meeting of the Markets and Reliability Committee (MRC) were <u>approved</u> by acclamation with no objections or abstentions.

#### 2. PJM Manuals (9:40-10:10)

- A. Ms. Nicole Scott presented proposed revisions to Manual 03: Transmission Operations related to the periodic review of the manual.
- B. Mr. Keyur Patel presented a proposed problem statement / issue charge related to revisions to Manual 11: Energy & Ancillary Services Market Operations regarding Day Ahead Scheduling Reserve Eligibility.
- C. Mr. Chris Pilong presented proposed revisions to Manual 13: Emergency Operations related to the periodic review of the manual.
- D. Mr. Jason Connell presented proposed revisions to Manual 14E: Merchant Transmission Specific Requirements regarding Merchant Network Upgrades and reorganizing for readability.
- E. Mr. Glen Boyle presented proposed revisions to Manual 36: System Restoration incorporating lessons learned from the annual restoration drill and the periodic review of the Manual.

Following discussion, the committee **endorsed** the proposed revisions and problem statement / issue charge in items 2.A through 2.E by acclamation with no objections or abstentions.





#### 3. External Capacity Performance Enhancements (10:10-10:30)

Mr. Asanga Prera presented a problem statement / issue charge related to External Capacity Performance Enhancements. Following discussion, the committee <a href="mailto:approved">approved</a> the proposed problem statement / issue charge by acclamation with one objection and no abstentions.

#### 4. Real-Time Values (10:30-10:45)

Mr. Tong Zhao presented proposed Manual 11: Energy & Ancillary Services Market Operations revisions to incorporate Real-Time Values. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.

#### 5. Transmission Replacement Processes Sr. Task Force (TRPSTF) (10:45-11:00)

Mr. Fran Barrett presented the proposed charter for the TRPSTF (previously entitled the End of Life Sr. Task Force). Following discussion, the committee **approved** the proposed charter by acclamation with no objections or abstentions.

#### 6. Energy Market Uplift Senior Task Force (EMUSTF) (11:00-11:15)

Mr. Dave Anders presented a proposed revision to the EMUSTF charter to incorporate the scope of the recently approved Problem Statement and Issue Charge regarding "Review of Virtual Transaction Rules". Following discussion, the committee **approved** the proposed revision by acclamation with no objections or abstentions.

#### 7. Earlier Queue Submittal Task Force (EQSTF) (11:15-11:30)

Mr. Dave Egan presented the recommendations of the EQSTF, including proposed Tariff revisions. Following discussion, the committee **endorsed** the proposed revisions by acclamation with no objections or abstentions.

#### 8. Replacement Resources (11:30-11:45)

Mr. Barry Trayers, CitiGroup, moved and Mr. Bruce Campbell seconded adding to Manual 18: PJM Capacity Market Section 8.7, Replacement Resources an additional acceptable reason for early capacity replacement. Dr. Joe Bowring and others requested friendly amendments to delete the words "Wind, Solar, Demand Response and" and insert the word "cleared" before "Incremental Auction buy bids". Mr. Trayers and Mr. Campbell accepted this friendly amendment. Following discussion, the committee **endorsed** the amended proposed Manual 18 revisions by acclamation with three objections and six abstentions.

#### 9. Seasonal Capacity Resources Sr. Task Force (SCRSTF) (11:45-12:00)

Mr. Scott Baker presented the draft charter for the SCRSTF. Following discussion, the committee **approved** the proposed draft charter in a sector weighted vote with 4.10 in favor.

#### 10. <u>Distributed Energy Resources (DER) (12:45-1:00)</u>





Mr. Dave Anders presented proposed revisions to the previously approved DER problem statement which were reviewed at the special MRC meeting on April 18, 2016. Following discussion, the committee **approved** the proposed revisions by acclamation with no objections or abstentions.

#### 11. Joint Owned Resource Communication Model (1:00-1:15)

Mr. Mike Bryson presented proposed revisions to Manual 14D Attachment L regarding Joint Owned Resource Communication Model. Following discussion, the committee **endorsed** at their first reading the proposed revisions by acclamation with no objections or abstentions.

#### First Readings (1:15-2:30)

#### 12. PLS Exception Process (1:15-1:30)

Mr. Tong Zhao presented a PLS Exception process proposal for consideration. The Committee will be asked to endorse this proposal at its next meeting.

#### 13. <u>Transmission Owner Upgrades (1:30-1:45)</u>

Mr. Paul McGlynn discussed RTEP process enhancements related to transmission substation equipment. Mr. McGlynn will also present PJM Operating Agreement revisions to implement the proposed changes. The committee will be asked to endorse the proposed revisions at a future meeting.

#### 14. PJM Manuals (1:45-2:30)

- A. Mr. Glenn Bray, PJM Relay Subcommittee Chairman, presented proposed revisions to PJM Manual 7: PJM Protection Standards recommended as part of the PJM Relay Subcommittee's biennial review of the Manual. The Committee will be asked to endorse these proposed revisions at its next meeting.
- B. Mr. David Schweizer reviewed proposed changes to Manual 10: Pre-Scheduling Operations to clarify that outage reporting rules for planned, maintenance and forced outages are applicable to both capacity and energy resources. The Committee will be asked to endorse these proposed revisions at its next meeting.
- C. Mr. Keyur Patel reviewed proposed revisions to Manual 11: Energy & Ancillary Services Market Operations. These changes are being presented as conforming changes to align with Manual 12: Balancing Operations revision 34 (addition of Attachment F) which was recently endorsed by the Markets and Reliability Committee. The Committee will be asked to endorse these proposed revisions at its next meeting.
- D. Mr. Mark Kuras noted a replacement for the CEII section of the Introduction in PJM Manual 14B: PJM Region Transmission Planning Process. The Committee will be asked to endorse these proposed revisions at its next meeting.
- E. Mr. Michael Herman presented proposed revisions to PJM Manual 14B: PJM Region Transmission Planning Process including updates to Light Load and Winter Peak Reliability analyses to align





with current practices, references to TPL-001-4 and updates to Appendix to M14B Attachment G. The Committee will be asked to endorse these proposed revisions at its next meeting.

- F. Mr. Jason Shoemaker presented proposed revisions to Manual 14C: Generation and Transmission Interconnection Facility Construction to support the inclusion of Order 1000 processes. The Committee will be asked to endorse these proposed revisions at its next meeting.
- G. Mr. Keyur Patel presented proposed revisions to Manual 15: Cost Development Guidelines as part of the periodic review process and additional conforming changes. The Committee will be asked to endorse the proposed conforming revisions at its next meeting, and will discuss whether the remaining revisions identified in the periodic review should be reviewed by the Cost Development Subcommittee.
- H. Ms. Terri Esterly presented proposed revisions to Manual 18: PJM Capacity Market related to the manual's periodic review, conforming changes related to Capacity Performance and the Deploy All Resource Action. The Committee will be asked to endorse these proposed revisions at its next meeting.
- Mr. Nick Disciullo presented proposed revisions to Manual 28: Operating Agreement Accounting as part of the periodic review process. The Committee will be asked to endorse these proposed revisions at its next meeting.

#### Informational Updates (2:30-3:00)

#### 15. IRM Study Assumptions (2:30-2:45)

Mr. Tom Falin presented the IRM study assumptions as developed in the Resource Adequacy Analysis Subcommittee.

#### 16. Joint Operating Agreement Language Updates (2:45-3:00)

Mr. Paul McGlynn reviewed a draft of MISO/PJM Joint Operating Agreement language to develop targeted market efficiency projects.

#### Future Agenda Items (3:00)

No new future agenda items were identified.

#### Future Meeting Dates

June 30, 2016	9:00 a.m.	Wilmington, DE
July 28, 2016	9:00 a.m.	Wilmington, DE
August 25, 2016	9:00 a.m.	Wilmington, DE
September 29, 2016	9:00 a.m.	Wilmington, DE
October 27, 2016	9:00 a.m.	Wilmington, DE
November 17, 2016	9:00 a.m.	Wilmington, DE
December 22, 2016	9:00 a.m.	Wilmington, DE

#### In Attendance (Chair/Secretary):

Daugherty, Suzanne PJM Interconnection, LLC Not Applicable





Anders, Dave PJM Interconnection, LLC Not Applicable

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Batta, Michael	Virginia Electric & Power Company	Transmission Owner
Benchek, Jim	FirstEnergy Solutions Corp.	Transmission Owner
Bleiweis, Bruce	DC Energy, LLC	Other Supplier
Borgatti, Michael	Rep'g Newark Energy Center, LLC	Generation Owner
Borgatti, Michael	Rep'g NextEra Energy Power Marketing, LLC	Generation Owner
Borgatti, Michael	Rep'g Jersey Green Energy LLC	Other Supplier
Borgatti, Michael	Rep'g Covanta Energy Group, LLC	Generation Owner
Borgatti, Michael	Rep'g York County Solid Waste and Refuse Authority	Generation Owner
Borgatti, Michael	Rep'g Elgin Energy Center, LLC	Generation Owner
Borgatti, Michael	Rep'g Longview Power, LLC	Generation Owner
Brown, Jason	Dynasty Power, Inc.	Other Supplier
Bruce, Susan	Rep'g Air Liquide Industrials U.S., L.P.	End User Customer
Bruce, Susan	Rep'g MeadWestvaco Corporation	End User Customer
Bruce, Susan	Rep'g Kimberly-Clark Corporation	Generation Owner
Bruce, Susan	Rep'g Procter & Gamble Paper Products Company (The)	End User Customer
Bruce, Susan	Rep'g Linde, LLC	End User Customer
Bruce, Susan	Rep'g Letterkenny Industrial Development Authority	Electric Distributor
Bruce, Susan	Rep'g Wellsboro Electric Company	Electric Distributor
Bruce, Susan	Rep'g Praxair, Inc.	End User Customer
Bruce, Susan	Rep'g Trustees of the University of Pennsylvania	End User Customer
Bruce, Susan	Rep'g Industrial Energy Users-Ohio	Other Supplier
Bruce, Susan	Rep'g Gerdau Ameristeel Energy, Inc.	Other Supplier
Bruce, Susan	Rep'g Lehigh Portland Cement Company	End User Customer
Bruce, Susan	Rep'g Air Products & Chemicals, Inc.	End User Customer
Campbell, Bruce	Rep'g MidAtlantic Power Partners, LLC	Other Supplier
Campbell, Bruce	Rep'g EnergyConnect, Inc.	Other Supplier
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ellison, Alan	Grays Ferry Cogeneration Partnership	Generation Owner
Esposito, Patricia	TransCanada Power Marketing Ltd.	Generation Owner
Fitch, Neal	NRG Power Marketing, LLC	Generation Owner
Fondacci, Luis	North Carolina Electric Membership Corporation	Electric Distributor
Greening, Michele	Talen Energy Marketing, LLC	Generation Owner
Greiner, Gary	Public Service Electric & Gas Company	Transmission Owner
Griffiths, Dan	Rep'g West Virginia Consumer Advocate Division	End User Customer





Griffiths, Dan	Rep'g Maryland Office of People's Counsel	End User Customer
Griffiths, Dan	Rep'g Illinois Citizens Utility Board	End User Customer
Griffiths, Dan	Rep'g Ohio Consumers' Counsel	End User Customer
Griffiths, Dan	Rep'g Indiana Office of Utility Consumer Counselor (IN OUCC)	End User Customer
Griffiths, Dan	Rep'g Office of the Attorney General, Kentucky	End User Customer
Griffiths, Dan	Rep'g Pennsylvania Office of Consumer Advocate	End User Customer
Griffiths, Dan	Rep'g New Jersey Division of Rate Counsel	End User Customer
Griffiths, Dan	Rep'g Delaware Division of the Public Advocate	End User Customer
	EnerNOC, Inc.	Other Supplier
Guerry, Katie		Generation Owner
Hoatson, Tom	West Deptford Energy, LLC	
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Horton, Dana	Appalachian Power Company (AEP Generation)	Transmission Owner
Jablonski, James	Rep'g Borough of South River, New Jersey	Electric Distributor
Jablonski, James	Rep'g Borough of Milltown, New Jersey	Electric Distributor
Jablonski, James	Rep'g Borough of Park Ridge, New Jersey	Electric Distributor
Jablonski, James	Rep'g Borough of Seaside Heights, New Jersey	Electric Distributor
Jablonski, James	Rep'g Vineland Municipal Electric Utility	Electric Distributor
Jablonski, James	Rep'g Borough of Pemberton	Electric Distributor
Jablonski, James	Rep'g Borough of Butler, Butler Electric Division	Electric Distributor
Jablonski, James	Rep'g Borough of Madison, New Jersey	Electric Distributor
Jablonski, James	Rep'g Borough of Lavallette, New Jersey	Electric Distributor
Johnson, Carl	Rep'g American Municipal Power, Inc.	Electric Distributor
Johnson, Carl	Rep'g Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Johnson, Carl	Rep'g Illinois Municipal Electric Agency	Electric Distributor
Johnson, Carl	Rep'g Hagerstown Light Department	Electric Distributor
Johnson, Carl	Rep'g Borough of Mont Alto, Pennsylvania	Electric Distributor
Johnson, Carl	Rep'g Thurmont Municipal Light Company	Electric Distributor
Johnson, Carl	Rep'g Town of Williamsport (The)	Electric Distributor
Johnson, Carl	Rep'g Energy Cooperative Association of PA	Other Supplier
Johnson, Carl	Rep'g Madison Gas & Electric Co.	Other Supplier
Johnson, Carl	Rep'g North Carolina Municipal Power Agency # 1	Other Supplier
Johnson, Carl	Rep'g WPPI Energy	Other Supplier
Johnson, Carl	Rep'g Buckeye Power, Inc.	Electric Distributor
Johnson, Carl	Rep'g Indiana Municipal Power Agency	Generation Owner
Johnson, Carl	Rep'g Easton Utilities Commission	Electric Distributor
Johnson, Carl	Rep'g City of Dover, Delaware	Electric Distributor
Johnson, Carl	Rep'g Delaware Municipal Electric Corporation, Inc.	Electric Distributor





Transmission Owner

Other Supplier

Johnson, Carl	Rep'g Borough of Chambersburg (DTEET)	Electric Distributor
Johnson, Carl	Rep'g Central Virginia Electric Cooperative	Electric Distributor
Johnson, Carl	Rep'g Blue Ridge Power Agency, Inc.	Electric Distributor
Johnson, Carl	Rep'g Old Dominion Electric Cooperative	Electric Distributor
Johnson, Carl	Rep'g Allegheny Electric Cooperative, Inc.	Electric Distributor
Johnson, Carl	Rep'g Galt Power, Inc.	Other Supplier
Kogut, George	New York Power Authority	Other Supplier
Lieberman, Steven	Old Dominion Electric Cooperative	Electric Distributor
Melnyk, Markian	Atlantic Grid Operations A, LLC	Other Supplier

Midgley, Sharon Exelon Business Services Company, LLC Transmission Owner Mok, Alan Duke Energy Business Services LLC Transmission Owner Norton, Chris American Municipal Power, Inc. Electric Distributor Pakela, Greg DTE Energy Trading, Inc. Other Supplier

Peoples, JohnDuquesne Light CompanyTransmission OwnerProkop, BrendaRep'g ITC Interconnection LLCOther Supplier

Prokop, Brenda Rep'g ITC Mid-Atlantic Development LLC Other Supplier

Richardson, Frank (Chip) PPL Electric Utilities Corp. dba PPL Utilities (LSE) Transmission Owner

Riding, MQ Essential Power Rock Springs, LLC

Rohrbach, John Rep'g Southern Maryland Electric Cooperative, Inc. Electric Distributor
Rohrbach, John Rep'g Wabash Valley Power Association, Inc. Electric Distributor

Rutigliano, Tom Rep'g Demansys Energy, LLC

Rutigliano, Tom Rep'g Enerwise Global Technologies, Inc. Other Supplier

Rutigliano, Tom Rep'g Earth Networks, Inc. Other Supplier Rutigliano, Tom Rep'g Achieving Equilibrium LLC Other Supplier

Rutigliano, Tom Rep'g EMC Development Company, Inc. Other Supplier

Scarpignato, David Calpine Energy Services, L.P. Generation Owner
Scoglietti, Barbara Tangent Energy Solutions, Inc. Other Supplier

Sitaraman, Nicole Office of the People's Counsel for the District of Columbia End User Customer

Trayers, Barry Citigroup Energy, Inc. Other Supplier
Tripoli, Matt IMG Midstream LLC Generation Owner
Vargo, Daniel Allegheny Electric Cooperative, Inc. Electric Distributor

Wadsworth, Joe Vitol Inc. Electric Cooperative, Inc. Other Supplier

Whitehead, Jeffrey Direct Energy Business, LLC Other Supplier
Wiegand-Jackson, Laurie IPKeys Power Partners, LLC Other Supplier

Yu, Joel Rockland Electric Company Transmission Owner





#### In Attendance (Non-Voting Participants):

Ainspan, Malcolm NRG Curtailment Solutions, Inc. Other Supplier

Bainbridge, Thomas FirstEnergy Solutions Corporation Transmission Owner

Binder, Gerry SESCO Enterprises LLC Other Supplier
Birnel, William Westar Energy, Inc. Other Supplier
Bleiweis, Bruce DC Energy, L.L.C. Other Supplier

Bolan, Martin FirstEnergy Solutions Corporation Transmission Owner

Bowring, Joseph Monitoring Analytics, LLC Not Applicable

nowing, Joseph Worldoning Analytics, LLC Not Applicable

Bray, Glenn PPL Electric Utilities Corporation d/b/a PPL Utilities Transmission Owner

Brozina, Mark Tangibl Not Applicable
Carmean, Gregory OPSI Not Applicable

Cocco, Michael Old Dominion Electric Cooperative Electric Distributor

Cox, Bill Exion Energy, Inc. Other Supplier
Davis, Connie Cleveland Public Power Electric Distributor

DeLosa, Joseph State of Delaware Public Service Commission Not Applicable

Denavas, Joe Pepco Holdings Incorporated Not Applicable

DePillo, Raymond PSEG Transmission Owner

Dessender, Harry Customized Energy Solutions, Ltd.\* Not Applicable

Dillon, Matt UGI Development Company Transmission Owner

Dinicola, Laura FirstEnergy Solutions Corporation Transmission Owner

Duan, Robert Ontario Power Generation Inc. Other Supplier

Erbrick, Michael MICS Not Applicable

Farber, John Delaware Public Service Commission Not Applicable

Filomena, Guy Customized Energy Solutions Not Applicable

Gaston, Vilna Public Service Electric & Gas Company Transmission Owner

Gebolys, Debbie Public Utilities Commission of Ohio Not Applicable

Giles, Steven Allegheny Electric Cooperative, Inc. Electric Distributor
Goode, Cory Yes Energy LLC Not Applicable

Hagaman, Derek GT Power Group Not Applicable
Hanser, Erik Michigan Public Service Commission Not Applicable

Haynes, Greg Energy Authority, Inc. (The) Other Supplier
Heidorn, Richard RTO Insider Not Applicable

Helmick, Douglas GenOps LLC Other Supplier

Henry, Michelle FirstEnergy Solutions Corporation Transmission Owner

Herel, Suzanne RTO Insider Not Applicable

Hilaski, Steve Pepco Holdings Incorporated Not Applicable





Huntoon, Stephen Energy Counsel, LLP

Janicki, Diane Boston Energy Trading and Marketing LLC

Karrasch, Kim **IGS Energy** 

Lacy, Catharine **Dominion Resources** Leimann, John **Dominion Virginia Power** 

Liang-Nicol, Cecilia FirstEnergy Solutions Corporation

Lopez-Lopez, Tony Bryndan Associates, Inc.

Manning, James North Carolina Electric Membership Corporation

**PSEG** Marsan, Mark

McAlister, Lisa American Municipal Power, Inc. Melnyk, Markian Atlantic Grid Operations A, LLC

Metzler, Jakob Castleton Commodities Merchant Trading L.P.

Midgley, Sharon Exelon

Miller, John Commonwealth Edison Company

**PPL** Nadel, Steven

Norton, Chris American Municipal Power, Inc. Nowell, Cynthia Pepco Holdings Incorporated

**AEP** Ondayko, Brock

Owens, Nick NorthBridge Group Patten, Kevin American Electric Power

Pratzon, David **GT Power Group** 

Price, Ruth Delaware Public Advocates Office

Rainey, Frank **PEI Power Corporation** Rajan, Abhijit **Dominion Resources** Rutigliano, Tom Achieving Equilibrium, LLC Sasser, Jonathan **Customized Energy Solutions** Seelaus, Tim EMC Development Company, Inc.

East Coast Power L.L.C. Shanker, Roy

Stacy, Amanda East Kentucky Power Cooperative, Inc. Stubbe, Judy Duke Energy Business Services, Inc. Sunderhauf, Steve Potomac Electric Power Company

Sutton, Ryan University of Texas

Tatum, Ed American Municipal Power, Inc.

Thompson, Matthew XO Energy MA, LP Pierce Atwood LLP Tibbetts, Maeve

Walker, Jennifer Exelon Business Services Company, LLC Weber, Adam

Union Electric Company d/b/a Ameren Missouri

Not Applicable **Generation Owner** 

Not Applicable

Not Applicable

Not Applicable

**Transmission Owner** 

Not Applicable

**Electric Distributor** 

Transmission Owner

**Generation Owner** 

Other Supplier

Other Supplier

**Transmission Owner** 

**Transmission Owner** 

**Transmission Owner** 

**Generation Owner** 

Not Applicable

**Transmission Owner** 

Not Applicable

**Transmission Owner** 

Not Applicable Not Applicable

**Generation Owner** 

Not Applicable

Not Applicable

Not Applicable

Other Supplier

Not Applicable

**Transmission Owner** Generation Owner

**Electric Distributor** 

Not Applicable

**Generation Owner** 

Other Supplier

Not Applicable

Transmission Owner

Other Supplier

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Wilhite, Chad FirstEnergy Solutions Corporation

Williams, Amber New York State Electric & Gas Corporation

Wilson, James Wilson Energy Economics

Wisersky, Megan Madison Gas & Electric Company

Wood, Gordon ETC Endure Energy, LLC

Transmission Owner

Other Supplier

Not Applicable

Other Supplier

Other Supplier

### In Attendance (PJM Participants):

Baker, ScottPJM Interconnection, LLCNot ApplicableBarrett, FrancisPJM Interconnection, LLCNot ApplicableBerner, AaronPJM Interconnection, LLCNot ApplicableBoyle, GlenPJM Interconnection, LLCNot ApplicableBresler, StuPJM Interconnection, LLCNot ApplicableBruno, PatrickPJM Interconnection, LLCNot ApplicableBryson, MichaelPJM Interconnection, LLCNot ApplicableBurlew, JimPJM Interconnection, LLCNot ApplicableCallis, JoePJM Interconnection, LLCNot ApplicableCarroll, RebeccaPJM Interconnection, LLCNot ApplicableCaven, AugustinePJM Interconnection, LLCNot ApplicableConnell, JasonPJM Interconnection, LLCNot ApplicableConp, DaniellePJM Interconnection, LLCNot ApplicableCummings, BridgidPJM Interconnection, LLCNot ApplicableDotter, RayPJM Interconnection, LLCNot ApplicableEgan, DavePJM Interconnection, LLCNot ApplicableEnnis, BradPJM Interconnection, LLCNot ApplicableEsterly, TeriPJM Interconnection, LLCNot ApplicableFabiano, JanellPJM Interconnection, LLCNot ApplicableFalin, ThomasPJM Interconnection, LLCNot ApplicableFernandez, RayPJM Interconnection, LLCNot ApplicableFord, AdrienPJM Interconnection, LLCNot ApplicableGlazer, CraigPJM Interconnection, LLCNot ApplicableHamilton, Bryant <td< th=""><th>Abobi, Soada</th><th>PJM Interconnection, LLC</th><th>Not Applicable</th></td<>	Abobi, Soada	PJM Interconnection, LLC	Not Applicable
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Bruno, Patrick PJM Interconnection, LLC Not Applicable Bryson, Michael PJM Interconnection, LLC Not Applicable Burlew, Jim PJM Interconnection, LLC Not Applicable Callis, Joe PJM Interconnection, LLC Not Applicable Carroll, Rebecca PJM Interconnection, LLC Not Applicable Caven, Augustine PJM Interconnection, LLC Not Applicable Connell, Jason PJM Interconnection, LLC Not Applicable Croop, Danielle PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Dotter, Ray PJM Interconnection, LLC Not Applicable Egan, Dave PJM Interconnection, LLC Not Applicable Egan, Dave PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Fabiano, Janell PJM Interconnection, LLC Not Applicable Falin, Thomas PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Hemilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable	Boyle, Glen	PJM Interconnection, LLC	Not Applicable
Bryson, Michael PJM Interconnection, LLC Not Applicable Burlew, Jim PJM Interconnection, LLC Not Applicable Callis, Joe PJM Interconnection, LLC Not Applicable Carroll, Rebecca PJM Interconnection, LLC Not Applicable Caven, Augustine PJM Interconnection, LLC Not Applicable Connell, Jason PJM Interconnection, LLC Not Applicable Croop, Danielle PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Dotter, Ray PJM Interconnection, LLC Not Applicable Egan, Dave PJM Interconnection, LLC Not Applicable Ennis, Brad PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Fabiano, Janell PJM Interconnection, LLC Not Applicable Falin, Thomas PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Herdirzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Bresler, Stu	PJM Interconnection, LLC	Not Applicable
Burlew, Jim PJM Interconnection, LLC Not Applicable Callis, Joe PJM Interconnection, LLC Not Applicable Carroll, Rebecca PJM Interconnection, LLC Not Applicable Caven, Augustine PJM Interconnection, LLC Not Applicable Connell, Jason PJM Interconnection, LLC Not Applicable Croop, Danielle PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Dotter, Ray PJM Interconnection, LLC Not Applicable Egan, Dave PJM Interconnection, LLC Not Applicable Ennis, Brad PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Fabiano, Janell PJM Interconnection, LLC Not Applicable Falin, Thomas PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Hemilton, Bryant PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC	Bruno, Patrick	PJM Interconnection, LLC	Not Applicable
Callis, Joe PJM Interconnection, LLC Not Applicable Carroll, Rebecca PJM Interconnection, LLC Not Applicable Caven, Augustine PJM Interconnection, LLC Not Applicable Connell, Jason PJM Interconnection, LLC Not Applicable Croop, Danielle PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Dotter, Ray PJM Interconnection, LLC Not Applicable Egan, Dave PJM Interconnection, LLC Not Applicable Ennis, Brad PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Fabiano, Janell PJM Interconnection, LLC Not Applicable Falin, Thomas PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Glazer, Craig PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Bryson, Michael	PJM Interconnection, LLC	Not Applicable
Carroll, Rebecca PJM Interconnection, LLC Not Applicable Caven, Augustine PJM Interconnection, LLC Not Applicable Connell, Jason PJM Interconnection, LLC Not Applicable Croop, Danielle PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Cummings, Bridgid PJM Interconnection, LLC Not Applicable Dotter, Ray PJM Interconnection, LLC Not Applicable Egan, Dave PJM Interconnection, LLC Not Applicable Ennis, Brad PJM Interconnection, LLC Not Applicable Esterly, Teri PJM Interconnection, LLC Not Applicable Fabiano, Janell PJM Interconnection, LLC Not Applicable Falin, Thomas PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Glazer, Craig PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC	Burlew, Jim	PJM Interconnection, LLC	Not Applicable
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Falin, Thomas PJM Interconnection, LLC Not Applicable Fan, Zhenyu PJM Interconnection, LLC Not Applicable Fernandez, Ray PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Glazer, Craig PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Esterly, Teri	PJM Interconnection, LLC	Not Applicable
Fan, Zhenyu PJM Interconnection, LLC Not Applicable Fernandez, Ray PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Not Applicable Glazer, Craig PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray PJM Interconnection, LLC Not Applicable Ford, Adrien PJM Interconnection, LLC Rot Applicable Glazer, Craig PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Rot Applicable Hauske, Thomas PJM Interconnection, LLC Rot Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Falin, Thomas	PJM Interconnection, LLC	Not Applicable
Ford, Adrien PJM Interconnection, LLC Not Applicable Glazer, Craig PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Glazer, Craig PJM Interconnection, LLC Not Applicable Hamilton, Bryant PJM Interconnection, LLC Not Applicable Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Hamilton, BryantPJM Interconnection, LLCNot ApplicableHauske, ThomasPJM Interconnection, LLCNot ApplicableHendrzak, ChantalPJM Interconnection, LLCNot ApplicableHerling, StevenPJM Interconnection, LLCNot Applicable	Ford, Adrien	PJM Interconnection, LLC	Not Applicable
Hauske, Thomas PJM Interconnection, LLC Not Applicable Hendrzak, Chantal PJM Interconnection, LLC Not Applicable Herling, Steven PJM Interconnection, LLC Not Applicable	Glazer, Craig	PJM Interconnection, LLC	Not Applicable
Hendrzak, ChantalPJM Interconnection, LLCNot ApplicableHerling, StevenPJM Interconnection, LLCNot Applicable	Hamilton, Bryant	PJM Interconnection, LLC	Not Applicable
Herling, Steven PJM Interconnection, LLC Not Applicable	Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
	Hendrzak, Chantal	PJM Interconnection, LLC	Not Applicable
Herman, Michael PJM Interconnection, LLC Not Applicable	Herling, Steven	PJM Interconnection, LLC	Not Applicable
	Herman, Michael	PJM Interconnection, LLC	Not Applicable





Holland, Risa
Hsia, Eric
Keech, Adam
Koza, Frank
Kuras, Mark
Liebold, Chuck
MacGibbon, Doug
Manion, Evelyn
Maxwell, Melissa
McGlynn, Paul
McLaverty, Megan
Noonan, Tom
Olaleye, Michael
O'Neill, Jack
Patel, Keyur
Perera, Asanga
Pilong, Chris
Price, Robert
Quevada, Jason
Quintavalla, Ginger
Schuyler, Ken
Schweizer, David
Scott, Nicole
Sechrist, Erin
Shoemaker, Jason
Shparber, Steve
Stotesbury, Christina
Tribulski, Jennifer
Weiss, Glenn
Zhao, Tong
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PJM Interconnection, LLC
PJM Interconnection, LLC

Not Applicable
Not Applicable

Author: D. A. Anders