

Markets and Reliability Committee
The Chase Center on the Riverfront, Wilmington, DE
October 27, 2016
9:00 a.m. – 1:00 p.m. EPT

Administration

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

Endorsements/Approvals

1. Draft Minutes

Minutes of the September 29, 2016 meeting of the Markets and Reliability Committee (MRC) were **approved** by acclamation with no objections or abstentions.

2. PJM Manuals

- A. Mr. Joe Hay presented proposed revisions to Manual 14A: Generation and Transmission Interconnection Process that are a result of the work completed at the Earlier Queue Submittal Task Force.
- B. Ms. Glatz presented proposed revisions to Manual 14C: Generation and Transmission Interconnection Facility Construction related to technical standards for Order 1000 projects.

Following discussion, the committee **endorsed** the proposed revisions in items 2.A and 2.B by acclamation with no objections or abstentions.

3. 2016 Installed Reserve Margin Study Results

Mr. Tom Falin reviewed the 2016 Installed Reserve Margin (IRM) study results. Following discussion the committee **endorsed** the study results by acclamation, with no objections and one abstention.

4. Credit Subcommittee

Mr. Hal Loomis presented proposed clarifying updates to Tariff Attachment Q – Credit Policy. Following discussion the committee **endorsed** the proposed revisions by acclamation, with no objections or abstentions.

5. PJM Capacity Problem Statement / Issue Charge

Mr. Ed Tatum, American Municipal Power, presented an updated problem statement / issue charge regarding PJM Capacity. The sponsors of the proposed problem statement / issue charge received comments on the proposed scope of the issue charge key work activities. Following discussion the sponsors temporarily withdrew their request for approval at this meeting. Stakeholders were asked provide comments to the sponsors prior to the committee's next meeting.

6. Market Implementation Committee Charter

Ms. Chantal Hendrzak presented an update to the Market Implementation Committee Charter. Following discussion the committee **endorsed** the proposed updated charter by acclamation, with no objections or abstentions.

First Readings

X. Replacement of Capacity Obligations

Mr. Barry Trayers, CitiGroup Energy Inc., presented proposed revisions to Manual 18: Capacity Market regarding the immediate replacement of capacity obligations. Mr. Jeff Bastian presented a proposed clarifying friendly amendment. Mr. Trayers agreed that this proposed amendment was friendly, and it was therefore incorporated. The committee will be asked to endorse the amended proposed revisions at its next meeting.

7. Operating Parameters

Mr. Tom Hauske presented a proposal to un-nest Operating Parameter definitions the Tariff and in Manual 11: Energy & Ancillary Services Market Operations, Manual 15: Cost Development Guidelines and Manual 28: Operating Agreement Accounting. The committee will be asked to endorse the proposed manual and Tariff revisions at its next meeting.

8. Day Ahead Scheduling Reserve (DASR) Requirement

Mr. Tom Hauske reviewed the preliminary 2017 DASR Requirement. This reserve requirement will be incorporated into Manual 13: Emergency Operations, and become effective on January 1, 2017. The committee will be asked to endorse the 2017 DASR Requirement at its next meeting.

9. Glossary of Terms

Ms. Janell Fabiano provided an update on the new [Glossary available on PJM's website](#), as well as the pending retirement of Manual 35: Definitions and Acronyms. PJM and Members discussed the potential development of a stand-alone governing document which would aggregate the definitions from the Operating Agreement, Tariff and Reliability Assurance Agreement (with definitions removed from those three documents). The committee will be asked to endorse the retirement of Manual 35 at its next meeting.

10. Underperformance Risk Management Sr. Task Force (URMSTF)

- A. Ms. Rebecca Carroll reported on the activities of the URMSTF regarding underperformance risk management and participation of capacity external to PJM's footprint in Capacity Performance.
- B. Ms. Rebecca Carroll presented a proposal regarding underperformance risk management in Capacity Performance developed by the URMSTF. The committee will be asked to endorse this proposal at its next meeting.

11. Seasonal Capacity Resources Sr. Task Force (SCRSTF)

- A. Mr. Scott Baker reported on the activities of the SCRSTF. He led a discussion exploring whether to sunset the SCRSTF. Stakeholders expressed interest in not sunsetting the SCRSTF; rather retaining the SCRSTF in suspension to be available in the event that additional engagement on seasonal capacity issues should be desired. Mr. Baker noted that the SCRSTF would be suspended.
- B. Mr. Jeff Whitehead, Direct Energy, proposed a motion to extend Base Capacity for one year. The committee will be asked to endorse this proposal at its next meeting.

12. Sell Back of Excess Capacity

Mr. Jeff Whitehead, Direct Energy, presented a proposed problem statement / issue charge regarding PJM's sell back of excess capacity in Reliability Pricing Model (RPM) Incremental Auctions. The committee will be asked to approve the proposed problem statement / issue charge at its next meeting.

13. Combined Cycle Modelling Problem Statement

Mr. Bob O'Connell, PPGI Fund A/B Development, LLC, discussed the activities of the Combined Cycle User Group, and will present a proposed problem statement / issue charge regarding Combined Cycle unit modelling. The committee will be asked to approve the proposed problem statement / issue charge at its next meeting.

14. Winter Season Resource Adequacy and Capacity Requirements

Mr. Jim Wilson, on behalf of The MD Office of the Peoples' Counsel, presented a proposed problem statement / issue charge regarding Winter Season Resource Adequacy and Capacity Requirements. The committee will be asked to approve the proposed problem statement / issue charge at its next meeting.

15. Pumped Hydro Storage

Mr. Steve Shparber presented proposed Tariff, and Operating Agreement revisions related to pumped hydro storage developed by the GDECS. The Committee will be asked to endorse these proposed revisions at its next meeting.

16. PJM Manuals

- A. Ms. Nicole Scott was available to respond to questions regarding proposed changes to Manual 03: Transmission Operations resulting from the periodic review of the manual. The committee will be asked to endorse the proposed revisions at its next meeting.
- B. Mr. Aaron Berner was available to respond to questions regarding updates to the Tariff and Manual 14A: Generation and Transmission Interconnection Process that are a result of discussions at Special Planning Committee sessions regarding New Service Request Cost Allocation & Study Methods. The committee will be asked to endorse the proposed revisions at its next meeting.

- C. Mr. Mike Herman was available to respond to questions regarding modifications to PJM Manual 14B: PJM Region Transmission Planning Process regarding the Capacity Import Limit calculation procedure. The procedure resides in Attachment G.11 of Manual 14B. The committee will be asked to endorse the proposed revisions at its next meeting.
- D. Mr. Jeff Schmitt was available to respond to questions regarding proposed revisions to Manual 15: Cost Development Guidelines regarding Fuel Cost Policies contingent upon FERC approval of PJM's related compliance filing. The committee will be asked to endorse these proposed revisions at its next meeting if FERC has ruled on PJM's related compliance filing by that meeting.
- E. This item was addressed as separate agenda item X above.
- F. Ms. Terri Esterly was available to respond to questions regarding proposed revisions to Manual 18B: Energy Efficiency Measurement & Verification identified through the periodic review of the manual. The committee will be asked to endorse the proposed revisions at its next meeting.
- G. Mr. Jerry Bell was available to respond to questions regarding proposed draft changes to Manual 21: Rules and Procedures for Determination of Generating Capability related to generator testing requirements. The committee will be asked to endorse the proposed revisions at its next meeting.
- H. Mr. Ray Fernandez was available to respond to questions regarding proposed revisions to Manual 28: Operating Agreement Accounting to better describe a fully metered EDC. The committee will be asked to endorse these proposed revisions at its next meeting.

Informational Updates

17. Dominion Bath Thermal Special Protection Scheme (SPS) Retirement

Mr. Mike Batta, Dominion, provided an update on the Bath SPS retirement.

Future Agenda Items

No new future agenda items were identified.

Future Meeting Dates

November 17, 2016
December 22, 2016

9:00 a.m.
9:00 a.m.

Conference & Training Center, Valley Forge, PA
Wilmington, DE

CHAIR/SECRETARY

Last Name	First name	Company	Role
Daugherty	Suzanne	PJM Interconnection, LLC	Chair
Anders	David	PJM Interconnection, LLC	Secretary

VOTING PARTICIPANTS

Last Name	First Name	Company	Sector
Barker	Jason	Exelon Business Services Company, LLC	Transmission Owner

Benchek	Jim	FirstEnergy Solutions Corp.	Transmission Owner
Borgatti	Michael	Rep'g. Covanta Energy Group, LLC	Generation Owner
Borgatti	Michael	Rep'g. Elgin Energy Center, 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. Newark Energy Center, LLC	Generation Owner
Borgatti	Michael	Rep'g. NextEra Energy Power Marketing, LLC	Generation Owner
Borgatti	Michael	Rep'g. York County Solid Waste and Refuse Authority	Generation Owner
Bruce	Susan	Rep'g. Air Liquide Industrials U.S., L.P.	End User Customer
Bruce	Susan	Rep'g. Air Products & Chemicals, Inc.	End User 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 User Customer
Bruce	Susan	Rep'g. Letterkenny Industrial Development Authority	Electric Distributor
Bruce	Susan	Rep'g. Linde, LLC	End User Customer
Bruce	Susan	Rep'g. MeadWestvaco Corporation	End User Customer
Bruce	Susan	Rep'g. Praxair, Inc.	End User Customer
Bruce	Susan	Rep'g. Procter & Gamble Paper Products Company (The)	End User Customer
Bruce	Susan	Rep'g. Trustees of the University of Pennsylvania	End User Customer
Bruce	Susan	Rep'g. Wellsboro Electric Company	Electric Distributor
Campbell	Bruce	Rep'g. Enerwise Global Technologies, Inc.	Other Supplier
Campbell	Bruce	Rep'g. MidAtlantic Power Partners, LLC	Other Supplier
Cox	Jason	Dynegy Marketing and Trade, LLC	Generation Owner
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
Evrard	David	Pennsylvania Office of Consumer Advocate	End User Customer
Fitch	Neal	NRG Power Marketing, LLC	Generation Owner
Fondacci	Luis	North Carolina Electric Membership Corporation	Electric Distributor
Fuess	Jay	Rep'g. Church Hill Solar Farm, LLC	Generation Owner
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

Garnett	Bryan	Duke Energy Business Services LLC	Transmission Owner
Greening	Michele	PPL Electric Utilities Corp. dba PPL Utilities (LSE)	Transmission Owner
Greiner	Gary	Public Service Electric & Gas Company	Transmission Owner
Griffiths	Dan	Rep'g. Delaware Division of the Public Advocate	End User Customer
Griffiths	Dan	Rep'g. Indiana Office of Utility Consumer Counselor (IN OUCC)	End User Customer
Griffiths	Dan	Rep'g. Maryland Office of People's Counsel	End User Customer
Griffiths	Dan	Rep'g. New Jersey Division of Rate Counsel	End User Customer
Griffiths	Dan	Rep'g. Office of the Attorney General, Kentucky	End User Customer
Griffiths	Dan	Office of the People's Counsel for the District of Columbia	End User Customer
Griffiths	Dan	Rep'g. Ohio Consumers' Counsel	End User Customer
Griffiths	Dan	Rep'g. West Virginia Consumer Advocate Division	End User Customer
Guerry	Katie	EnerNOC, Inc.	Other Supplier
Hoatson	Tom	West Deptford Energy, LLC	Generation Owner
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Horton	Dana	Appalachian Power Company (AEP Generation)	Transmission Owner
Hyzinski	Thomas	Talen Energy Marketing, LLC	Generation Owner
Jablonski	James	Rep'g. Borough of Butler, Butler Electric Division	Electric Distributor
Jablonski	James	Rep'g. Borough of Lavallette, New Jersey	Electric Distributor
Jablonski	James	Rep'g. Borough of Madison, 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 Pemberton	Electric Distributor
Jablonski	James	Rep'g. Borough of Seaside Heights, New Jersey	Electric Distributor
Jablonski	James	Rep'g. Borough of South River, New Jersey	Electric Distributor
Jablonski	James	Rep'g. Vineland Municipal Electric Utility	Electric Distributor
Jardot	Gina	Essential Power Rock Springs, LLC	Transmission Owner
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 PA	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 Municipal Power Agency # 1	Other Supplier
Johnson	Carl	Rep'g. Northern Virginia Electric Cooperative (NOVEC)	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. WPPI Energy	Other Supplier
Kelly	Stephen	Brookfield Energy Marketing LP	Other Supplier
Kilgallen	Kevin	Rep'g. Avangrid Renewables, LLC	Generation Owner
Kilgallen	Kevin	Rep'g. EDP Renewables North America, LLC	Generation Owner
Kogut	George	New York Power Authority	Other Supplier
Lacy	Catharine	Virginia Electric & Power Company	Transmission Owner
LeBris Erfmeyer	Jacques	Illinois Citizens Utility Board	End User Customer
Lieberman	Steven	Old Dominion Electric Cooperative	Electric Distributor
Long	Scott	Allegheny Electric Cooperative, Inc.	Electric Distributor
Melnyk	Markian	Atlantic Grid Operations A, LLC	Other Supplier
Merola	Becky	Noble Americas Gas & Power Corp.	Other Supplier
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
O'Connell	Robert	PPGI Fund A/B Development, LLC	Generation Owner
Peoples	John	Duquesne Light Company	Transmission Owner
Pratzon	David	Rep'g. Eastern Generation, LLC	Generation Owner
Pratzon	David	Rep'g. Wheelabrator Frackville Energy Co., Inc.	Generation Owner
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
Spencer	Doug	Southeastern Power Administration	Other Supplier
Trayers	Barry	Citigroup Energy, Inc.	Other Supplier
Whitehead	Jeffrey	Direct Energy Business, LLC	Other Supplier
Yu	Joel	Rockland Electric Company	Transmission Owner

NON-VOTING PARTICIPANTS

Last Name	First Name	Company	Sector
Ainspan	Malcolm	NRG Power Marketing, LLC	Generation Owner
Behrens	Jason	Tenaska Pennsylvania Partners, LLC	Generation Owner
Birnel	William	Westar Energy, Inc.	Other Supplier
Bloom	David	Baltimore Gas and Electric Company	Transmission Owner
Bolan	Martin	FirstEnergy Solutions Corp.	Transmission Owner
Bouchez	Nicole	NYISO	Not Applicable
Caristia	James	Public Service Electric & Gas Company	Transmission Owner
Chen	Jennifer	NRDC	Not Applicable
Chocarro	Iker	E.ON Climate & Renewables North America Inc.	Generation Owner
Chocarro	Iker	E.ON Climate & Renewables North America Inc.	Generation Owner
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Creem	Elliot	Comverge	Not Applicable
Crystle	Gil	UGI Energy Services, LLC	Other Supplier
Currier	Jeff	Virginia Electric & Power Company	Transmission Owner
Dalessandris	Lou	FirstEnergy Solutions Corp.	Transmission Owner
Delosa	Joe	Delaware Public Service Commission	Not Applicable
Depillo	Raymond	Public Service Electric & Gas Company	Transmission Owner
Dickson	Douglas	New Jersey Board of Public Utilities	Not Applicable
Dillon	Matt	UGI Development Company	Generation Owner
Dinicola	Laura	FirstEnergy Solutions Corp.	Transmission Owner
Doremus	Steve	EnerNOC, Inc.	Other Supplier
Emnett	Mason	NextEra Energy Power Marketing, LLC	Generation Owner
Erbrick	Michael	MICS	Not Applicable
Erbrick	Michael	MICS	Not Applicable
Esposito	Pat	TransCanada Power Marketing Ltd.	Generation Owner
Fields	William	Maryland Office of Peoples Counsel	End Use Customer
Finn-Foley	Daniel	GTM Research	Not Applicable
Foxen	Tim	Osaka Gas USA Corporation	Not Applicable
Gebolys	Debbie	Public Utilities Commission of Ohio	Not Applicable
Gilani	Rehan	Consolidated Edison Energy, Inc.	Other Supplier
Giles	Steven	Allegheny Electric Cooperative	Electric Distributor
Godson	Gloria	Exelon Business Services Company, LLC	Transmission Owner
Hanser	Erik	Michigan Public Service Commission	Not Applicable

Harmon	Mike	Ameren	Other Supplier
Hastings	David	MICS	Not Applicable
Hayes	Pat	Ameren	Other Supplier
Hitch	George	Dominion Energy Marketing, Inc.	Generation Owner
Janicki	Diane	Boston Energy Trading and Marketing, LLC	Generation Owner
Jett	Bill	Duke Energy Business Services LLC	Transmission Owner
Josyula	Siva	Monitoring Analytics	Not Applicable
Kaczanowski	Marek	Baltimore Gas and Electric Company	Transmission Owner
Karrasch	Kim	IGS Energy	Not Applicable
Kerecman	Joe	Calpine Energy Services	Generation Owner
Kliner	Alicia	Federal Energy Regulatory Commission	Not Applicable
Kolo	Elta	Greentech Media	Not Applicable
Kormos	Mike	Exelon Business Services Company, LLC	Transmission Owner
Lacy	Catharine	Virginia Electric & Power Company	Transmission Owner
Laios	Takis	American Electric Power	Not Applicable
Liang-Nicol	Cecilia	FirstEnergy Solutions Corp.	Transmission Owner
Logan	Sharon	Federal Energy Regulatory Commission	Not Applicable
Long	Scott	Allegheny Electric Cooperative	Electric Distributor
Lowe	Connie	Virginia Electric & Power Company	Transmission Owner
Lyser	Shelly	Rockland Electric Company	Transmission Owner
Manning	James	North Carolina Electric Membership Corporation	Electric Distributor
Mariam	Yohannes	Office of the People's Counsel for the District of Columbia	End Use Customer
Martin	Valerie	Federal Energy Regulatory Commission	Not Applicable
Matheson	Douglas	EnerNOC, Inc.	Other Supplier
Mcalister	Lisa	American Municipal Power, Inc.	Electric Distributor
Mccaffree	Matthew	Comverge	Not Applicable
Mccarvill	John	New Jersey Board of Public Utilities	Not Applicable
Mccormick	Alan	Capital Alpha Partners	Not Applicable
Metzler	Jakob	CCI	Not Applicable
Miller	John	Commonwealth Edison Company	Transmission Owner
Nadel	Steven	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Nowell	Cynthia	Potomac Electric Power Company	End Use Customer
Ondayko	Brock	Appalachian Power Company	Transmission Owner
Patten	Kevin	American Electric Power	Not Applicable
Perine	Chandler	Fidelity	Not Applicable

Polakowski	Ray	Direct Energy Business Marketing, LLC	Other Supplier
Rainey	Frank	PEI Power Corporation	Generation Owner
Rajan	Abhijit	Dominion Virginia Power	Not Applicable
Rayhorn	Carolyn	Dominion Energy Marketing, Inc.	Generation Owner
Riehl	John	Federal Energy Regulatory Commission	Not Applicable
Robins	Pip	EMC Development Company, Inc.	Other Supplier
Robson	Matt	SESCO Enterprises, LLC	Other Supplier
Rutigliano	Tom	EMC Development Company, Inc.	Other Supplier
Sakib	Md	ICF Consulting	Not Applicable
Salaneck	Alexandra	Monitoring Analytics	Not Applicable
Seide	Richard	Apex Clean Energy Management LLC	Not Applicable
Shanker	Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Sillin	John	Federal Energy Regulatory Commission	Not Applicable
Smith	Andrew	S&P Global Market Intelligence	Not Applicable
Tangirala	Subha	ABB	Not Applicable
Vargo	Daniel	Allegheny Electric Cooperative	Electric Distributor
Vogel	Anne	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Walker	Jennifer	Exelon Business Services Company, LLC	Transmission Owner
Watson	Mark	Platts	Not Applicable
Wilhite	Chad	FirstEnergy Solutions Corp.	Transmission Owner
Williams	Amber	New York State Electric & Gas Corporation	Other Supplier
Wilmoth	Emily	Dominion Energy Marketing, Inc.	Generation Owner
Wilson	James	Wilson Energy Economics	Not Applicable
Wisersky	Megan	Madison Gas & Electric, Co.	Other Supplier
Xenopoulos	Damon	SMXB	Not Applicable
York	Katherine	Tennessee Valley Authority	Other Supplier

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
Berner	Aaron	PJM Interconnection, LLC	Not Applicable
Bhavaraju	Murty	PJM Interconnection, LLC	Not Applicable
Blackwell	Terry	PJM Board Member	Not Applicable



Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Bressler	Stu	PJM Interconnection, LLC	Not Applicable
Brown	Rich	PJM Interconnection, LLC	Not Applicable
Bruno	Joshua	PJM Interconnection, LLC	Not Applicable
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Bryson	Mike	PJM Interconnection, LLC	Not Applicable
Burdis	Tim	PJM Interconnection, LLC	Not Applicable
Callis	Joe	PJM Interconnection, LLC	Not Applicable
Carroll	Becky	PJM Interconnection, LLC	Not Applicable
Chao	Hungpo	PJM Interconnection, LLC	Not Applicable
Connell	Jason	PJM Interconnection, LLC	Not Applicable
Cummings	Bridgid	PJM Interconnection, LLC	Not Applicable
Dirani	Rami	PJM Interconnection, LLC	Not Applicable
Dotter	Ray	PJM Interconnection, LLC	Not Applicable
Driscoll	Mary Ellen	PJM Interconnection, LLC	Not Applicable
Duane	Vince	PJM Interconnection, LLC	Not Applicable
Egan	Amanda	PJM Interconnection, LLC	Not Applicable
Egan	Dave	PJM Interconnection, LLC	Not Applicable
Esterly	Theresa	PJM Interconnection, LLC	Not Applicable
Fabiano	Janell	PJM Interconnection, LLC	Not Applicable
Falin	Tom	PJM Interconnection, LLC	Not Applicable
Fernandez	Ray	PJM Interconnection, LLC	Not Applicable
Ford	Adrian	PJM Interconnection, LLC	Not Applicable
Foster	Denise	PJM Interconnection, LLC	Not Applicable
Franks	Chris	PJM Interconnection, LLC	Not Applicable
Furnholm	Whitney	PJM Interconnection, LLC	Not Applicable
Glatz	Suzanne	PJM Interconnection, LLC	Not Applicable
Gledhill	Andrew	PJM Interconnection, LLC	Not Applicable
Hauske	Tom	PJM Interconnection, LLC	Not Applicable
Hay	Joseph	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Herling	Steve	PJM Interconnection, LLC	Not Applicable
Herman	Michael	PJM Interconnection, LLC	Not Applicable
Holland	Risa	PJM Interconnection, LLC	Not Applicable
Hugee	Jacquelyn	PJM Interconnection, LLC	Not Applicable

Kenney	Susan	PJM Interconnection, LLC	Not Applicable
Keshavamurthy	Bhavana	PJM Interconnection, LLC	Not Applicable
Koza	Frank	PJM Interconnection, LLC	Not Applicable
Langbein	Peter	PJM Interconnection, LLC	Not Applicable
Larocque	Matthew	PJM Interconnection, LLC	Not Applicable
Levitt	Andrew	PJM Interconnection, LLC	Not Applicable
Loomis	Hal	PJM Interconnection, LLC	Not Applicable
Manion	Evelyn	PJM Interconnection, LLC	Not Applicable
McLavery	Megan	PJM Interconnection, LLC	Not Applicable
McLeod	Ian	PJM Interconnection, LLC	Not Applicable
Mcnamara	Sean	PJM Interconnection, LLC	Not Applicable
Monzon	Stephanie	PJM Interconnection, LLC	Not Applicable
Mooney	Molly	PJM Interconnection, LLC	Not Applicable
O'Brien	Tom	PJM Interconnection, LLC	Not Applicable
Ott	Andy	PJM Board Member	Not Applicable
Perera	Asanga	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Quevada	Jason	PJM Interconnection, LLC	Not Applicable
Reynolds	John	PJM Interconnection, LLC	Not Applicable
Ritchie	Sandra	PJM Interconnection, LLC	Not Applicable
Robinson	Charles	PJM Board Member	Not Applicable
Rocha Garrido	Patricio	PJM Interconnection, LLC	Not Applicable
Scheidecker	Paul	PJM Interconnection, LLC	Not Applicable
Schmidt	Jeff	PJM Interconnection, LLC	Not Applicable
Schuyler	Ken	PJM Interconnection, LLC	Not Applicable
Scott	Nicole	PJM Interconnection, LLC	Not Applicable
Shparber	Steve	PJM Interconnection, LLC	Not Applicable