

Markets and Reliability Committee
The Chase Center on the Riverfront, Wilmington, DE
August 25, 2016
9:30 a.m. – 3:00 p.m. EPT

Administration (9:30-9:35)

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

Endorsements/Approvals (9:35-10:10)

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

Minutes of the July 28, 2016 meeting of the Markets and Reliability Committee (MRC) were **approved** by acclamation with no objections or abstentions.

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

- A. Mr. Ron DeLoach presented proposed revisions to Manual 3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA) regarding administrative and modeling process updates.
- B. Mr. Tong Zhao presented proposed revisions to changes to Manual 11: Energy & Ancillary Services Market Operations as part of the periodic review process.
- C. Mr. Tom Hauske presented proposed revisions to Manual 12: Balancing Operations regarding administrative and conforming updates.
- D. Mr. David Schweizer presented proposed revisions to Manual 14D: Generator Operational Requirements including updates to the unit cold weather testing process and the clarification of VAR-001 exception criteria.
- E. Mr. Phil D'Antonio presented proposed revisions to Manual 37: Reliability Coordination as part of the manual's periodic review.

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

First Readings (10:10-12:30)

3. Release of Capacity in 17/18 Delivery Year 3rd Incremental Auction (10:10-10:40)

Mr. Jeff Bastian reviewed the proposal and continued discussion in response to the reporting directive in FERC Docket ER16-532 concerning the release of annual capacity in the 2017/2018 Delivery Year 3rd Incremental Auction related to excess capacity procured in the Capacity Performance Transition Incremental Auction. The committee will be asked to endorse the proposal at a future meeting.

4. Manual 15: Cost Development Guidelines (10:40-11:10)

- A. Mr. Jeff Schmitt discussed proposed revisions to Manual 15: Cost Development Guidelines developed as part of the periodic review process. The committee will be asked to endorse these proposed revisions at its next meeting.
- B. Mr. Jeff Schmitt also discussed proposed revisions to Manual 15: Cost Development Guidelines regarding fuel cost policies. The committee will be asked to endorse these proposed revisions at its next meeting contingent upon FERC approval of PJM's related compliance filing.

5. Metering Task Force (MTF) (11:10-11:30)

Ms. Nancy Huang and Mr. Ryan Nice discussed MTF activities, including the proposed solution package to the PJM Manual Metering Requirements Review and Update issue. Mr. Nice also presented associated proposed revisions to Manual 1: Control Center and Data Exchange Requirements. The committee will be asked to endorse these proposed revisions at its next meeting.

6. Planning Committee Charter (11:30-11:40)

Mr. Paul McGlynn presented a proposed update to the Planning Committee Charter. The updates are administrative updates only. The committee will be asked to endorse these proposed revisions at its next meeting.

7. PJM Capacity Problem Statement / Issue Charge (11:40-12:00)

Mr. Ed Tatum, American Municipal Power presented a proposed problem statement / issue charge regarding PJM Capacity. The committee will be asked to approve the proposed problem statement / issue charge at its next meeting.

8. PJM Manuals (12:00-12:30)

- A. Mr. Mike Herman presented proposed revisions to Manual 14B: PJM Region Transmission Planning Process and 14C: Generation & Transmission Interconnection Facility Construction related to the new equipment energization process. The committee will be asked to endorse these proposed revisions at its next meeting.
- B. Mr. Ron DeLoach presented proposed revisions to Manual 3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA) including a new appendix defining a process checklist for energizing new equipment. The committee will be asked to endorse these proposed revisions at its next meeting.
- C. Mr. Herman presented proposed revisions to Manual 14B: PJM Region Transmission Planning Process related to winter temperature ratings. The committee will be asked to endorse these proposed revisions at its next meeting.

Informational Updates (12:30-12:40)

9. Special Protection Scheme (SPS) Removal (12:30-12:40)

This item was deferred to the September 29, 2016 MRC meeting.

Future Agenda Items (12:40)

No new future agenda items were identified.

Future Meeting Dates

| | | |
|--------------------|-----------|----------------|
| 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 |

Attendance

Chair/Secretary

| Last Name | First Name | Company | Role |
|-----------|------------|--------------------------|-----------|
| Anders | Dave | PJM Interconnection, LLC | Secretary |
| Daugherty | Suzanne | PJM Interconnection, LLC | Chair |

Voters

| Last Name | First Name | Company | Sector |
|-----------|------------|--|----------------------|
| Barker | Jason | Exelon Business Services Company, LLC | Transmission 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 |
| Crystle | Gil | UGI Development Company | Generation Owner |
| Dugan | Chuck | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Esposito | Patricia | TransCanada Power Marketing Ltd. | Generation Owner |

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| 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 |
| 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 Illinois Citizens Utility Board | 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 | Rep.'g 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 |
| Helms | Joseph | Rainbow Energy Marketing Corporation | Other Supplier |
| Hoatson | Tom | West Deptford Energy, LLC | Generation Owner |
| Horstmann | John | Dayton Power & Light Company (The) | Transmission Owner |
| Hyzinski | Thomas | Talen Energy Marketing, LLC | Generation Owner |
| Jardot | Gina | Essential Power Rock Springs, LLC | Transmission Owner |
| 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 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 |

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|-------------|-----------|--------------------------------------|----------------------|
| Kilgallen | Kevin | Avangrid Renewables, LLC | Generation Owner |
| Lacy | Catharine | Virginia Electric & Power Company | Transmission Owner |
| Lieberman | Steven | Old Dominion Electric Cooperative | Electric Distributor |
| Melnyk | Markian | Atlantic Grid Operations A, LLC | Other Supplier |
| Merola | Becky | Noble Americas Gas & Power Corp. | Other Supplier |
| Pakela | Greg | DTE Energy Trading, Inc. | Other Supplier |
| Peoples | John | Duquesne Light Company | Transmission Owner |
| Prokop | Brenda | ITC Interconnection LLC | Transmission Owner |
| Scarpignato | David | Calpine Energy Services, L.P. | Generation Owner |
| Trayers | Barry | Citigroup Energy, Inc. | Other Supplier |
| Vargo | Daniel | Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Yu | Joel | Rockland Electric Company | Transmission Owner |

Non-Voters

| Last Name | First Name | Company | Sector |
|--------------|------------|---|----------------------|
| Benchek | Jim | FirstEnergy Solutions Corp. | Transmission Owner |
| Birmel | William | Westar Energy, Inc. | Other Supplier |
| Blair | Tom | Monitoring Analytics, LLC | Not Applicable |
| Bloom | David | Baltimore Gas and Electric Company | Transmission Owner |
| Bolan | Martin | FirstEnergy Solutions Corp. | Transmission Owner |
| Bowring | Joe | Monitoring Analytics, LLC | Not Applicable |
| Brozina | Mark | Tangibl LLC | Not Applicable |
| Caristia | James | Public Service Electric & Gas Company | Not Applicable |
| Carmean | Gregory | OPSI | Not Applicable |
| Chen | Jennifer | Natural Resources Defense Council | Not Applicable |
| Chocarro | Iker | E.ON Global Commodities North America LLC | Other Supplier |
| Cocco | Michael | Old Dominion Electric Cooperative | Electric Distributor |
| Collins | Leonard | State of Delaware | Not Applicable |
| Crystle | Gil | UGI Development Company | Transmission Owner |
| Currier | Jeff | Dominion Virginia Power | Not Applicable |
| Dalessandris | Lou | FirstEnergy Solutions Corp. | Transmission Owner |
| Davis | Connie | City of Cleveland, DPU, Div of Cleveland Public Pwr | Electric Distributor |
| Delosa | Joe | Delaware Public Service Commission | Not Applicable |
| Depillo | Ray | Public Service Electric & Gas Company | Generation Owner |
| Dillon | Matthew | UGI Development Company | Generation Owner |
| Ellison | Alan | Grays Ferry Cogeneration Partnership | Generation Owner |
| Erbrick | Michael | DhastCo, LLC | Not Applicable |
| Everngam | Scott | The Federal Energy Regulatory Commission | Not Applicable |
| Farber | John | DE Public Service Commission | Not Applicable |
| Filomena | Guy | Customized Energy Solutions, Ltd.* | Generation Owner |
| Foladare | Kenneth | IMG Midstream LLC | Generation Owner |
| Fondacci | Luis | North Carolina Electric Membership Corporation | Electric Distributor |

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| Foxen | Tim | Osaka Gas USA | Not Applicable |
| Garnett | Bryan | Duke Energy Ohio, Inc. | Transmission Owner |
| Gilani | Rehan | ConEdison Energy, Inc. | Other Supplier |
| Giles | Steven | Allegheny Electric Cooperative, Inc. | Electric Distributor |
| Hagaman | Derek | GT Power Group | Not Applicable |
| Hanser | Erik | Michigan Public Service Commission | Not Applicable |
| Harmon | Mike | Union Electric Company d/b/a Ameren Missouri | Other Supplier |
| Hayes | Pat | Dominion Retail, Inc. | Not Applicable |
| Heidom | Rich | RTO Insider | Not Applicable |
| Hitch | George | Dominion Energy Marketing, Inc. | Generation Owner |
| Horton | Dana | Appalachian Power Company | Transmission Owner |
| Hudis | Gabriella | Jersey Green Energy LLC | Other Supplier |
| Huntoon | Steve | NextEra Energy Power Marketing, LLC | Generation Owner |
| Jablonski | James | Borough of Butler, Butler Electric Division | Electric Distributor |
| Jia | Wufan | The Mobility House | Other Supplier |
| Johnson | Nick | Tenaska Power Services Co. | Generation Owner |
| Josyula | Siva | Monitoring Analytics, LLC | Not Applicable |
| Karrasch | Kim | Interstate Gas Supply, Inc. | Other Supplier |
| Katayama | Tomohiro | Osaka Gas USA | Not Applicable |
| Kauffman | Brian | NRG Curtailment Solutions | Other Supplier |
| Keefer | Brian | Dominion Energy Marketing, Inc. | Generation Owner |
| Kelly | Meg | eCap Network, LLC | Other Supplier |
| Kelly | Stephen | Brookfield Energy Marketing LP | Other Supplier |
| Kerecman | Joe | Calpine Energy Services, L.P. | Generation Owner |
| Killagen | Kevin | IBERDROLA RENEWABLES, LLC | Generation Owner |
| Kingston | Amber | North Carolina Electric Membership Corporation | Electric Distributor |
| Kliner | Alicia | The Federal Energy Regulatory Commission | Not Applicable |
| Kogut | George | New York Power Authority | Other Supplier |
| Kormos | Mike | Exelon Business Services Company, LLC | Generation Owner |
| Leasure | Jill | Keystone Projects | Not Applicable |
| Lee | Tina | Cogen Technologies | Generation Owner |
| Levine | Jeffrey | IPR-GDF SUEZ Energy Marketing NA, Inc. | Other Supplier |
| Lewis | Cara | Public Service Electric & Gas Company | Transmission Owner |
| Liang-Nicol | Cecilia | Monongahela Power Company d/b/a Allegheny Power | Transmission Owner |
| Mabry | David | McNees Wallace & Nurick LLC | Not Applicable |
| Manning | James | North Carolina Electric Membership Corporation | Electric Distributor |
| Mariam | Yohannes | Office of the Peoples Counsel for the District of Columbia | End User Customer |
| Martin | Valerie | The Federal Energy Regulatory Commission | Not Applicable |
| Mcalister | Lisa | American Municipal Power, Inc. | Electric Distributor |
| Midgley | Sharon | Exelon Business Services Company, LLC | Transmission Owner |
| Miller | John | Commonwealth Edison Company | Transmission Owner |
| Mohnhaupt | Michael | The Mobility House | Not Applicable |
| Mooney | Catherine | Monitoring Analytics, LLC | Not Applicable |

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| O'Connell | Robert | Main Line Electricity Market Consultants | Not Applicable |
| Olinger | Robert | Keystone Projects | Not Applicable |
| Ondayko | Brock | Appalachian Power Company | Transmission Owner |
| Patten | Kevin | Appalachian Power Company | Transmission Owner |
| Patterson | Paul | Glenrock Associates | Not Applicable |
| Philips | Marji | Direct Energy Business, LLC | Other Supplier |
| Phillips | Amanda | Wabash Valley Power Association, Inc. | Electric Distributor |
| Pratzon | David | GT Power Group | Not Applicable |
| Price | Ruth | Division of the Public Advocate of the State of Delaware | End User Customer |
| Reid | Ryan | Buckeye Power, Inc. | Electric Distributor |
| Reiss | Greg | Millenium Capital | Not Applicable |
| Riding | MQ | Essential Power OPP, LLC | Transmission Owner |
| Rohrbach | John | Southern Maryland Electric Cooperative | Electric Distributor |
| Rutigliano | Tom | Achieving Equilibrium LLC | Other Supplier |
| Schreim | Morris | Maryland Public Service Commission | Not Applicable |
| Schum | Alice | Illinois Municipal Electric Agency | Electric Distributor |
| Scoglietti | Barbara | Tangent Energy Solutions, Inc. | Other Supplier |
| Seibel | August | Roundtop Energy LLC | Generation Owner |
| Shanker | Roy | H.Q. Energy Services (U.S.), Inc. | Other Supplier |
| Shelton | Chris | Millenium Power, Inc | Not Applicable |
| Sidhom | Noha | Inertia Power I, LLC | Other Supplier |
| Stewart | Travis | Gable and Associates | Not Applicable |
| Stubbe | Judy | Duke Energy Ohio, Inc. | Transmission Owner |
| Sweeney | Rory | RTO Insider | Not Applicable |
| Tatum | Ed | American Municipal Power | Electric Distributor |
| Thomas | Glen | GT Power Group | Not Applicable |
| Thomson | Heather | Mid-Atlantic Renewable Energy | Not Applicable |
| Vennekotter | Kristin | American Municipal Power, Inc. | Electric Distributor |
| Vogel | Anne | AEP Appalachian Transmission Company, Inc. | Transmission Owner |
| Watson | Mark | Platts | Not Applicable |
| Weber | Adam | Union Electric Company d/b/a Ameren Missouri | Other Supplier |
| Wilhite | Chad | FirstEnergy Solutions Corp. | Transmission Owner |
| Williams | Amber | New York State Electric & Gas Corporation | Other Supplier |
| Wilmoth | Emily | Dominion Virginia Power | Not Applicable |
| Wilson | James | Wilson Energy Economics | Not Applicable |
| Wood | Gordon | ETC Endure Energy L.L.C. | Other Supplier |
| York | Katherine | Tennessee Valley Authority | Other Supplier |
| Zilliox | Skylar | RES America Developments Inc | Generation Owner |

PJM Attendees

| Last Name | First Name | Company | Sector |
|-----------|------------|--------------------------|----------------|
| Baker | Scott | PJM Interconnection, LLC | Not Applicable |
| Barrett | Fran | PJM Interconnection, LLC | Not Applicable |

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| Bastian | Jeff | PJM Interconnection, LLC | Not Applicable |
| Berner | Aaron | PJM Interconnection, LLC | Not Applicable |
| Brown | Rich | PJM Interconnection, LLC | Not Applicable |
| Bruno | Patrick | PJM Interconnection, LLC | Not Applicable |
| Bryson | Mike | PJM Interconnection, LLC | Not Applicable |
| Budney | David | 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 |
| Chao | Hungpo | PJM Interconnection, LLC | Not Applicable |
| Connell | Jason | PJM Interconnection, LLC | Not Applicable |
| Croop | Danielle | PJM Interconnection, LLC | Not Applicable |
| DeLoach | Ron | PJM Interconnection, LLC | Not Applicable |
| Dotter | Ray | PJM Interconnection, LLC | Not Applicable |
| Driscoll | Mary Ellen | PJM Interconnection, LLC | Not Applicable |
| Durdis | Tim | PJM Interconnection, LLC | Not Applicable |
| Egan | Amanda | PJM Interconnection, LLC | Not Applicable |
| Fabiano | Janell | PJM Interconnection, LLC | Not Applicable |
| Falin | Thomas | PJM Interconnection, LLC | Not Applicable |
| Franks | Chris | PJM Interconnection, LLC | Not Applicable |
| Freeman | Jennifer | PJM Interconnection, LLC | Not Applicable |
| Hamilton | Bryant | PJM Interconnection, LLC | Not Applicable |
| Hauske | Tom | PJM Interconnection, LLC | Not Applicable |
| Hendrzak | Chantal | PJM Interconnection, LLC | Not Applicable |
| Herling | Steven | PJM Interconnection, LLC | Not Applicable |
| Herman | Mike | PJM Interconnection, LLC | Not Applicable |
| Holland | Risa | PJM Interconnection, LLC | Not Applicable |
| Holter | Natasha | PJM Interconnection, LLC | Not Applicable |
| Hsia | Eric | PJM Interconnection, LLC | Not Applicable |
| Hugee | Jacquelynn | PJM Interconnection, LLC | Not Applicable |
| Keech | Jason | PJM Interconnection, LLC | Not Applicable |
| Kelley | Mike | PJM Interconnection, LLC | Not Applicable |
| Kenney | Susan | PJM Interconnection, LLC | Not Applicable |
| Koza | Frank | PJM Interconnection, LLC | Not Applicable |
| Larocque | Matthew | PJM Interconnection, LLC | Not Applicable |
| Manion | Evelyn | PJM Interconnection, LLC | Not Applicable |
| McGlynn | Paul | PJM Interconnection, LLC | Not Applicable |
| McLaverly | Megan | PJM Interconnection, LLC | Not Applicable |
| McLeod | Ian | PJM Interconnection, LLC | Not Applicable |

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| Meres | Lana | PJM Interconnection, LLC | Not Applicable |
| Murphy-Lee | Lori | PJM Interconnection, LLC | Not Applicable |
| Murphy-Lee | Lori | PJM Interconnection, LLC | Not Applicable |
| Nice | Ryan | PJM Interconnection, LLC | Not Applicable |
| O'Brien | Tom | PJM Interconnection, LLC | Not Applicable |
| Olaleye | Michael | PJM Interconnection, LLC | Not Applicable |
| Park | Jinny | PJM Interconnection, LLC | Not Applicable |
| Patel | Keyur | PJM Interconnection, LLC | Not Applicable |
| Pilong | Chris | PJM Interconnection, LLC | Not Applicable |
| Quintavalla | Ginger | 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 |
| Scott | Nicole | PJM Interconnection, LLC | Not Applicable |
| Sechrist | Erin | PJM Interconnection, LLC | Not Applicable |
| Slusser | Jeff | PJM Interconnection, LLC | Not Applicable |
| Smith | Melissa | PJM Interconnection, LLC | Not Applicable |
| Snyder | Susan | PJM Interconnection, LLC | Not Applicable |
| Souder | David | PJM Interconnection, LLC | Not Applicable |
| Stadlmeyer | Rebecca | PJM Interconnection, LLC | Not Applicable |
| Stotesbury | Christina | PJM Interconnection, LLC | Not Applicable |
| Tribulski | Jennifer | PJM Interconnection, LLC | Not Applicable |
| Weiss | Glenn | PJM Interconnection, LLC | Not Applicable |
| Zadlo | Thomas | PJM Interconnection, LLC | Not Applicable |

Author: D. A. Anders