

Planning Committee
PJM Conference and Training Center
September 14, 2017
9:30 a.m. – 12:15 p.m. EPT

Administration

1. Mr. Paul McGlynn, PJM, called the meeting to order, reviewed the Anti-trust, Code of Conduct, and Media Participation Guidelines.
2. Mr. McGlynn asked Ms. Susan McGill to review the meeting minutes of the August 10, 2017 Planning Committee meeting. Mr. McGlynn asked the Planning Committee to approve the minutes. Mr. Carl Johnson made a motion to approve the minutes. Mr. John Kopinski seconded the motion. In a voice vote, the Planning Committee approved the August 10, 2017 Planning Committee Minutes.

Endorsements (9:35 – 9:50)

3. **PJM Manual 14A**

Mr. Joe Hay, PJM, provided a second read for the Draft Manual 14A (Generation and Transmission Interconnection Process). Mr. Carl Johnson made a motion to endorse and Mr. David Scarpignato seconded the motion. There were no objections and no abstentions. In a voice vote, the committee endorsed the updates to Manual 14A.

First Readings (9:50 – 10:30)

4. **2017 Installed Reserve Margin Study Results**

Mr. Tom Falin, PJM, presented the results of the 2017 Installed Reserve Margin (IRM) study. The committee will be asked to endorse these results at its next meeting

5. **PJM Manual 14B**

Mr. Michael Herman, PJM, presented updates to Manual 14B (PJM Regional Transmission Process). The manual will be updated to reflect the changes from TPL-001-4 from TOP-001, TPL-002, and TPL-003 related to including bus tie breaker as part of single contingencies. The committee will be asked to endorse these updates at its next meeting.

6. **PJM Manual 19**

Mr. John Reynolds, PJM, presented updates to Manual 19 (Load Forecasting and Analysis) related to incorporating Price Responsive Demand into the load forecast, including clarification to when load drop estimates are performed as well as updates from the periodic review. The committee will be asked to endorse these updates at its next meeting.

Informational Updates (10:30 – 12:15)

7. Light Load Analysis

Mr. Mark Sims, PJM, reviewed the proposed approach to update the Light Load Reliability Test procedure parameters. This will continue to be discussed at future Planning Committee meetings

8. Grid Resilience in System Planning

Mr. Sims, PJM, discussed grid resilience in Transmission Planning as well as next steps. PJM will continue to refine the meaning of grid resilience in Transmission Planning in the coming meetings. Members are encouraged to provide feedback through the Planning Community.

9. RTEP 2018 Schedule Update

Mr. Alex Worcester, PJM, provided an update regarding the RTEP 2018 Schedule. The full RTEP Power flow case build schedule is available in the Item 9 materials in the September 14th Planning Committee Material on the [PC Website](#).

10. Preliminary 2018 Project Budget

Mr. Jim Snow, PJM, reviewed the preliminary 2018 project budget and timelines for approvals.

11. NERC and Regional Coordination Update

Mr. Preston Walker, PJM, provided an update on recent NERC activities and PJM compliance activities. NERC standards subject to future enforcement can be found under the September 14th Planning Committee Material at the [PC Website](#).

12. Project 2015-10 Single Points of Failure

Mr. Bill Harm, PJM, provided information regarding proposed changes to the TPL-001 standard that address FERC orders 754 and 786.

13. Retirement of Yards Creek Special Protection Scheme

Mr. Evan Ferrell, FirstEnergy, presented information related to retirement of the Yards Creek Special Protection Scheme.

14. Retirement of Aurora Energy Center Remedial Action Scheme

Mr. Alan Engelmann, ComEd, presented information related to retirement of the Aurora Energy Center Remedial Action Scheme.

15. Planning Community

Mr. Michael Herman, PJM, provide an overview and a demonstration of the PJM Planning Community

which went live on September 14th. Members are encouraged to work with PJM staff to establish a log in to the community. A link to register for the community will be available at the [PC Website](#).

Future Meeting Dates

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| September 22, 2017 | 2:00 p.m. | Special PC: New Service Request Study Methods | Teleconference Only |
| October 9, 2017 | 9:30 a.m. | Special PC: Consideration of Cost Cap/Containment Provisions for Competitive Proposals | PJM Conference and Training Center, Audubon, PA |
| October 12, 2017 | 9:30 a.m. | Planning Committee | PJM Conference and Training Center, Audubon, PA |
| November 9, 2017 | 9:30 a.m. | Planning Committee | PJM Conference and Training Center, Audubon, PA |
| December 14, 2017 | 9:30 a.m. | Planning Committee | PJM Conference and Training Center, Audubon, PA |

Attendees

| | | |
|--------------------------|---|----------------------|
| Paul McGlynn (Chair) | PJM Interconnection, LLC | Not Applicable |
| Susan McGill (Secretary) | PJM Interconnection, LLC | Not Applicable |
| Eric Lavery | Aces Power Marketing Inc. | Electric Distributor |
| RJ Cundiff | AEP Energy Partners, Inc. | Transmission Owner |
| Josh Burkholder | AEP Indiana-Michigan Transmission Company, Inc. | Transmission Owner |
| Nick Koehler | AEP Indiana-Michigan Transmission Company, Inc. | Transmission Owner |
| Mike Hassay | AEP Ohio Transmission Company, Inc. | Transmission Owner |
| Ed Kachaab | AEP Ohio Transmission Company, Inc. | Transmission Owner |
| Sean Black | Ameren Corporation | Not Applicable |
| Toby Hu | Ameren Corporation | Not Applicable |
| Kiran Thammineni | Ameren Corporation | Not Applicable |
| Bernie Pasternack | American Electric Power | IOU |
| Edward Tatum | American Municipal Power, Inc. | Electric Distributor |
| Gary Fuerst | American Transmission Systems, Inc. | Transmission Owner |
| Jim Zweig | American Transmission Systems, Inc. | Transmission Owner |
| Brock Ondayko | Appalachian Power Company | Transmission Owner |
| Kevin Patten | Appalachian Power Company | Transmission Owner |
| Kamran Ali | Appalachian Power Company | Transmission Owner |
| Ryan Dolan | Appalachian Power Company | Transmission Owner |
| Takis Laios | Appalachian Power Company | Transmission Owner |
| Daniel Miller | Appalachian Power Company | Transmission Owner |
| Will Burkett | Appalachian Power Company | Transmission Owner |
| Craig Lockwood | Appalachian Power Company | Transmission Owner |
| Markian Melnyk | Atlantic Grid Operations A, LLC | Other Supplier |
| Rajul Mahmud | Baltimore Gas and Electric Company | Transmission Owner |
| Hugh Scott | Baltimore Gas and Electric Company | Transmission Owner |
| Eric Yeh | Baltimore Gas and Electric Company | Transmission Owner |
| Brian Vayda | Borough of Park Ridge | Electric Distributor |
| Raj Chintapalli | BP Energy Company | Other Supplier |
| Paul Steckley | Brookfield Energy Marketing, LP | Other Supplier |
| David Scarpignato | Calpine Energy Services, L.P. | Generation Owner |
| Tom Hoatson | Carroll County Energy LLC | Other Supplier |
| Yan Du | Central Transmission, LLC | Transmission Owner |
| Barry Trayers | Citigroup Energy, Inc. | Other Supplier |
| Deral Danis | Clean Line Energy Partners LLC | Not Applicable |
| William Allen | Commonwealth Edison Company | Transmission Owner |
| Kevin Chamberlain | Commonwealth Edison Company | Transmission Owner |
| Alan Engelmann | Commonwealth Edison Company | Transmission Owner |
| John Garavaglia | Commonwealth Edison Company | Transmission Owner |

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| Ronald Regner | Commonwealth Edison Company | Transmission Owner |
| Diana McNally-Barsotti | Consolidated Edison | Other Supplier |
| Greg Poulos | Consumer Advocates of PJM States | Not Applicable |
| Bruce Campbell | Cpower | Other Supplier |
| Jamie Lejcar | CPS Energy | Electric Distributor |
| Carl Johnson | Customized Energy Solutions, Ltd.* | Not Applicable |
| Jonathan Sasser | Customized Energy Solutions, Ltd.* | Not Applicable |
| John Horstmann | Dayton Power & Light Company (The) | Transmission Owner |
| Michael Russ | Dayton Power & Light Company (The) | Transmission Owner |
| Kerry Neubrandner | DC Energy, LLC | Other Supplier |
| Joseph DeLosa | DE Public Service Commission | Not Applicable |
| John Farber | DE Public Service Commission | Not Applicable |
| Ruth Ann Price | Division of the Public Advocate of the State of Delaware | Other Supplier |
| Mingwei Chen | Dominion Virginia Power | Transmission Owner |
| Craig Crider | Dominion Virginia Power | Transmission Owner |
| Frank Zhang | Dominion Virginia Power | Transmission Owner |
| George Owens | Downes Associates, Inc. | Other Supplier |
| Greg Pakela | DTE Energy Trading, Inc. | Other Supplier |
| Steve Steinkuhl | Duke Energy Business Services LLC | Transmission Owner |
| julie mason | Duke Energy Ohio, Inc. | Transmission Owner |
| Steve Abate | Duquesne Light Company | Transmission Owner |
| Elizabeth Cook | Duquesne Light Company | Transmission Owner |
| Tonja Wicks | Duquesne Light Company | Transmission Owner |
| Patrick Grau | Dynegy Marketing and Trade, LLC | Generation Owner |
| Iker Chocarro | E.on Climate & Renewables North America, Inc | Generation Owner |
| Darrin Adams | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Scott Sells | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Amanda Stacy | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| John Brodbeck | EDP Renewables North America, LLC | Other Supplier |
| Kevin Kilgallen | Emerald Energy Consulting, LLC | Not Applicable |
| Malcolm Ainspan | Energy Curtailment Specialists, Inc. | Not Applicable |
| Steven Naumann | Exelon Business Services Company, LLC | Transmission Owner |
| Pablo Ovando | Exelon Business Services Company, LLC | Transmission Owner |
| Melanie Sanders | Exelon Business Services Company, LLC | Transmission Owner |
| Robert Taylor | Exelon Business Services Company, LLC | Transmission Owner |
| Kevin Thundiyl | Exelon Business Services Company, LLC | Transmission Owner |
| Sharon Midgley | Exelon Generation Co., LLC | Generation Owner |
| Shadrack Orero | Exelon Generation Co., LLC | Generation Owner |
| Roozbeh Shegarfi | Exelon Generation Co., LLC | Generation Owner |
| Chad Singer | Fellon McCord | Not Applicable |
| Aasawari Pawar | First Solar | Not Applicable |
| Evan Ferrell | FirstEnergy Corporation | Transmission Owner |
| Jim Benchek | FirstEnergy Solutions Corp. | Transmission Owner |
| Martin Bolan | FirstEnergy Solutions Corp. | Transmission Owner |
| John Syner | FirstEnergy Solutions Corp. | Transmission Owner |
| Johnbinh Vu | Florida Power & Light Company | Other Supplier |
| Rachel Hulett | Gridliance, GP, LLC | Not Applicable |
| Tom Hyzinski | GT Power Group | Not Applicable |
| David Pratzon | GT Power Group | Not Applicable |
| Jeffrey Whitehead | GT Power Group | Not Applicable |
| Kenneth Foladare | IMG Midstream LLC | Generation Owner |
| Joe Staszowski | ISO New England | Not Applicable |
| Brenda Prokop | ITC Interconnect | Transmission Owner |

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| John Kopinski | ITC Mid-Atlantic Development LLC | Other Supplier |
| Rehan Gilani | Leidos | Not Applicable |
| Sean Powers | Linde Energy Services, Inc | End User Customer |
| Robert Colozza | LS Power Transmission, LLC | Transmission Owner |
| John Seelke | LS Power Transmission, LLC | Transmission Owner |
| Sharon Segner | LS Power Transmission, LLC | Transmission Owner |
| Heather Thomson | Marec | Not Applicable |
| Fred Kelley | Maryland Public Service Commission | Not Applicable |
| David Mabry | McNees Wallace & Nurick LLC | Not Applicable |
| Erik Hanser | Michigan Public Service Commission | Not Applicable |
| Adam Solomon | Midwest Independent Transmission System Operator, Inc. | Not Applicable |
| Christin Domian | Mitsubishi Electric Power Products Inc. | Not Applicable |
| Adam Gerstnecker | Mitsubishi Electric Power Products Inc. | Not Applicable |
| Rajat Majumder | Mitsubishi Electric Power Products Inc. | Not Applicable |
| John Dadourian | Monitoring Analytics | Not Applicable |
| Christopher Opryck | New Jersey Board of Public Utilities | Not Applicable |
| George Kogut | New York Power Authority | Other Supplier |
| David Davis | NextEra Energy Power Marketing, LLC | Generation Owner |
| Gabriel Hollis | Nextera Energy, Inc | Other Supplier |
| Eric Rodriguez Reyes | Nextera Energy, Inc | Other Supplier |
| Clark Gloyeske | NiSource Inc | Not Applicable |
| Yang Wang | NiSource Inc | Not Applicable |
| James Manning | North Carolina Electric Membership Corporation | Electric Distributor |
| Miles Taylor | Northern Indiana Public Service Company | Other Supplier |
| Neal Fitch | NRG Power Marketing LLC | Generation Owner |
| Frederick Heinle | Office of the Peoples Counsel for the D.C. | Not Applicable |
| Adrien Ford | Old Dominion Electric Cooperative | Electric Distributor |
| William Pezalla | Old Dominion Electric Cooperative | Electric Distributor |
| Douglas Dale | PECO Energy Company | Transmission Owner |
| Mike Donnelly | PECO Energy Company | Transmission Owner |
| Pulin Shah | PECO Energy Company | Transmission Owner |
| Gloria Godson | PEPCO Holdings, Inc. | Transmission Owner |
| Amber Young | PEPCO Holdings, Inc. | Transmission Owner |
| Zelalem Tekle | PowerGEM | Not Applicable |
| Shadab Ali | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Michele Greening | PPL Electric Utilities Corp. dba PPL Utilities | Generation Owner |
| Kriti Dawadi | PSEG Energy Resources and Trade LLC | Transmission Owner |
| Sam Giordano | PSEG Energy Resources and Trade LLC | Transmission Owner |
| Gary Greiner | PSEG Energy Resources and Trade LLC | Transmission Owner |
| William Lavista | PSEG Energy Resources and Trade LLC | Transmission Owner |
| Michael Kayes | Public Service Electric & Gas | Transmission Owner |
| Qamar Arsalan | Public Service Electric & Gas Company | Transmission Owner |
| James Caristia | Public Service Electric & Gas Company | Transmission Owner |
| Daniel Hutt | Public Service Electric & Gas Company | Transmission Owner |
| Esam Khadr | Public Service Electric & Gas Company | Transmission Owner |
| Leonid Lyakhovich | Public Service Electric & Gas Company | Transmission Owner |
| Rich Marinelli | Public Service Electric & Gas Company | Transmission Owner |
| Jerry Martinez | Public Service Electric & Gas Company | Transmission Owner |
| John Nagurney | Public Service Electric & Gas Company | Transmission Owner |
| Alexander Stern | Public Service Electric & Gas Company | Transmission Owner |
| Debbie Gebolys | Public Utilities Commission of Ohio (The) | Not Applicable |
| Chandana Bommareddy | Quanta Technology | Not Applicable |
| Raj Pudhota | Quanta Technology | Not Applicable |

