

Planning Committee
PJM Conference and Training Center
April 11, 2019
9:00 a.m. – 12:00 p.m.

Administration (9:00-9:15)

1. Mr. Ken Seiler, PJM, called the meeting to order and Ms. Anisha Fernandes, PJM, reviewed the Anti-trust, Code of Conduct, media participation, and WebEx guidelines.
2. Ms. Anisha Fernandes reviewed the Agenda for the April 11, 2019 Planning Committee meeting. The Planning Committee approved the Agenda.
3. Ms. Anisha Fernandes reviewed the draft minutes posted for the March 07, 2019 meeting and the Planning Committee approved the minutes.
4. Mr. Ken Seiler reviewed the PC Work Plan.

Endorsements (9:15-10:00)

5. **Manual 21 Proposed Revisions**

Mr. Jerry Bell, PJM, presented proposed revisions to PJM Manual 21 Rules & Procedures for Determination of Generating Capability related to generator testing. It was noted that discussion of the proposed revisions related to ELCC treatment of intermittent resources is deferred to the May PC meeting. **By vote of acclamation the Planning Committee endorsed the Manual 21 Proposed revisions with 2 objections and 1 abstention.**

6. **Market Efficiency Process Enhancement Task Force**

Mr. Brian Chmielewski, PJM, presented the Market Efficiency phase 2 proposal developed at the Market Efficiency Process Enhancement Task Force (MEPETF), and the associated PJM Manuals and OA revisions. An edit to the OA redline language was proposed, discussed and accepted during the meeting. The edited version has been posted with the 4/11/19 meeting materials.

Endorsement 1: By vote of acclamation the Planning Committee endorsed the need for phase 3 of the MEPETF with 1 objection and 0 abstentions.

Endorsement 2: By vote of acclamation the Planning Committee endorsed the MEPETF phase 2 proposal, PJM Manuals and OA revisions with 0 objections and 0 abstentions.

[Issue Tracking: RTEP Market Efficiency Analysis](#)

First Reads (10:00-10:30)

7. **Benefit/Cost Analysis Problem Statement and Issue Charge**

Mr. Howard Haas, Monitoring Analytics, presented a Problem Statement and Issue Charge to review and discuss the current benefit/cost analysis process and solicit feedback from stakeholders. The PC Chair requested a revised Problem Statement to remove proposed solutions and also requested that interested stakeholders and PJM work together to develop a work plan for the outlined key activities by the next meeting. The Committee will be requested to endorse a revised version of the Problem Statement and Issue Charge at the next meeting.

8. Manual 07 Updates

Mr. Mark Kuras, PJM, presented updates to PJM Manual 07 PJM Protection Standards. The Committee will be requested to endorse these updates at the next meeting.

Informational Updates (10:30-12:00)

9. Cost Commitment Status and Next Steps

Mr. Mark Sims, PJM, provided an update on the status and next steps for the Consideration of Cost Commitment for Evaluation of Competitive Transmission Proposals.

[Issue Tracking: Cost Containment](#)

10. FERC Order No. 845 Update

Ms. Susan McGill, PJM, provided an update on the FERC Order No. 845 Special PC session and pending reforms, noting that an additional Special PC session is scheduled on 5/2/19 to discuss the pending reforms prior to the filing deadline.

11. DER Ride Through Task Force Update

Ms. Susan McGill, PJM, provided an update on the activities of the DER Ride Through Task Force.

12. Model Build Activity Update

Mr. Kyle Clifford provided an update regarding current model build activities, including the 2019 series MMWG/MOD-032 cases.

13. Reliability Compliance Update

Mr. Preston Walker, PJM, provided an update on the activities, issues and items of interest at NERC, SERC, and RF.

14. RTEP Process Enhancements Update

Mr. Aaron Berner, PJM, provided an update concerning the activities of the PC Special Sessions around the subject of upgrade modeling in the RTEP.

Information Only

Manual 03 Updates

Mr. Lagy Mathew, PJM, was available to answer questions on updates to Manual 03 – Transmission Operations. Materials are posted as Information Only.

Future Meeting Dates

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|----------------|------------------------|--|---|
| April 12, 2019 | 1:00 p.m. – 4:00 p.m. | Special PC: M-3 Process Lessons Learned | PJM Conference & Training Center/ WebEx |
| April 16, 2019 | 1:00 p.m. – 4:00 p.m. | Special PC: Merchant Transmission and Off-Shore Wind | PJM Conference & Training Center/ WebEx |
| May 2, 2019 | 1:00 p.m. – 4:00 p.m. | Special PC: FERC Order 845 | PJM Conference & Training Center/ WebEx |
| May 3, 2019 | 1:00 p.m. – 4:00 p.m. | Special PC: Merchant Transmission and Off-Shore Wind | PJM Conference & Training Center/ WebEx |
| May 16, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |
| May 31, 2019 | 1:00 p.m. – 4:00 p.m. | Special PC: Merchant Transmission and Off-Shore Wind | PJM Conference & Training Center/ WebEx |
| June 13, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |
| June 28, 2019 | 1:00 p.m. – 4:00 p.m. | Special PC: Merchant Transmission and Off-Shore Wind | PJM Conference & Training Center/ WebEx |
| July 11, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |
| July 12, 2019 | 9:00 a.m. – 12:00 p.m. | Special PC: M-3 Process Lessons Learned | PJM Conference & Training Center/ WebEx |
| July 24, 2019 | 1:00 p.m. – 4:00 p.m. | Special PC: Merchant Transmission and Off-Shore Wind | PJM Conference & Training Center/ WebEx |
| August 8, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |



Draft Meeting Minutes

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|--------------------|------------------------|---|---|
| September 12, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |
| October 11, 2019 | 9:00 a.m. – 12:00 p.m. | Special PC: M-3 Process Lessons Learned | PJM Conference & Training Center/ WebEx |
| October 17, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |
| November 14, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |
| December 12, 2019 | 9:00 a.m. – 12:00 p.m. | Planning Committee | PJM Conference & Training Center/ WebEx |

Attendance List

| | | |
|------------------------------|---|----------------------|
| Ken Seiler (Chair) | PJM Interconnection, LLC | Not Applicable |
| Anisha Fernandes (Secretary) | PJM Interconnection, LLC | Not Applicable |
| Ed Achaab | AEP Energy Partners, Inc. | Other Supplier |
| Nick Koehler | AEP Indiana-Michigan Transmission Company, Inc. | Transmission Owner |
| Ryan Dolan | American Municipal Power | Electric Distributor |
| Ed Tatum | American Municipal Power | Electric Distributor |
| Steven Lieberman | American Municipal Power, Inc. | Electric Distributor |
| Lisa McAlister | American Municipal Power, Inc. | Electric Distributor |
| Brock Ondayko | Appalachian Power Company | Transmission Owner |
| Takis Laios | Appalachian Power Company | Transmission Owner |
| Craig Lockwood | Appalachian Power Company | Transmission Owner |
| Markian Melnyk | Atlantic Grid Operations A, LLC | Other Supplier |
| Kevin Kilgallen | Avangrid Renewables LLC | Generation Owner |
| Hugh Scott | Baltimore Gas and Electric Company | Transmission Owner |
| Brian Vayda | Borough of Park Ridge | Electric Distributor |
| David Scarpignato | Calpine Energy Services, L.P. | Generation Owner |
| Greg Poulos | CAPS | Not Applicable |
| Barry Trayers | Citigroup Energy, Inc. | Other Supplier |
| Bill Allen | Commonwealth Edison Company | Transmission Owner |
| Thomas Leeming | Commonwealth Edison Company | Transmission Owner |
| Paul Mills | Commonwealth Edison Company | Transmission Owner |
| Ron Regner | Commonwealth Edison Company | Transmission Owner |
| Rehan Gilani | ConEdison Energy, Inc. | Other Supplier |
| Guy Filomena | Customized Energy Solutions, Ltd. | Not Applicable |
| Lynn Horning | Customized Energy Solutions, Ltd. | Not Applicable |
| Carl Johnson | Customized Energy Solutions, Ltd. | Not Applicable |
| Jonathan Sasser | Customized Energy Solutions, Ltd. | Not Applicable |
| Dwarakesh Nallan | Daymark Energy Advisors | Not Applicable |
| John Horstmann | Dayton Power & Light Company (The) | Transmission Owner |
| Mike Russ | Dayton Power & Light Company (The) | Transmission Owner |
| Kyle Hannah | Dominion Virginia Power | Transmission Owner |
| Connie Lowe | Dominion Virginia Power | Not Applicable |
| Ryen Lawson | Dominion Virginia Power | Not Applicable |
| Steve Steinkuhl | Duke Energy Business Services LLC | Transmission Owner |
| Julie Mason | Duke Energy Ohio, Inc. | Transmission Owner |
| Elizabeth Cook | Duquesne Light Company | Transmission Owner |
| Joe Pilch | Duquesne Light Company | Transmission Owner |
| Patrick Grau | Dyneegy 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 |
| Chuck Dugan | East Kentucky Power Cooperative, Inc. | Transmission Owner |
| Doug Copeland | EDF Trading North America, LLC | Other Supplier |
| John Brodbeck | EDP Renewables North America, LLC | Other Supplier |
| Jason Burwen | Energy Storage | Not Applicable |
| Bruce Campbell | EnergyConnect, Inc. | Other Supplier |
| Sharon Midgley | 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 Thundiyil | Exelon Business Services Company, LLC | Transmission Owner |
| Arthur Brown | Exelon Corp | Transmission Owner |
| Aasawari Pawar | First Solar | Not Applicable |
| Tom Bainbridge | FirstEnergy Solutions Corp. | Transmission Owner |
| Jim Benchek | FirstEnergy Solutions Corp. | Transmission Owner |
| Lou D'Alessandris | FirstEnergy Solutions Corp. | Transmission Owner |
| Andrew Horne | FirstEnergy Solutions Corp. | Transmission Owner |

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| Larre Hozempa | FirstEnergy Solutions Corp. | Transmission Owner |
| Ryan Leon | FirstEnergy Solutions Corp. | Transmission Owner |
| Jeff Stuchell | FirstEnergy Solutions Corp. | Transmission Owner |
| Mike Borgatti | Gabel and Associates | Not Applicable |
| Tom Hyzinski | GT Power Group | Not Applicable |
| Rory Sweeney | GT Power Group | Not Applicable |
| Jeff Whitehead | GT Power Group | Not Applicable |
| John Kopinski | ITC Mid-Atlantic Development LLC | Other Supplier |
| Mark Garza | Jersey Central Power & Light Company | Transmission Owner |
| Kent Chandler | Kentucky Government | Not Applicable |
| Sharon Segner | LS Power Transmission, LLC | Transmission Owner |
| David Mabry | McNees Wallace & Nurick LLC | Not Applicable |
| Christin Domian | Mitsubishi Electric Power Products Inc. | Not Applicable |
| John Dadourian | Monitoring Analytics, LLC | Not Applicable |
| Howard Haas | Monitoring Analytics, LLC | Not Applicable |
| David Brown | New Jersey Board of Public Utilities | Not Applicable |
| George Kogut | New York Power Authority | Other Supplier |
| Ed Benson | NextEra Energy Marketing LLC | Other Supplier |
| Walter Clemence | NextEra Energy Resources | Not Applicable |
| Gabriel Hollis | NextEra Energy Transmission, LLC | Other Supplier |
| Fred Von Pinho | NextEra Energy Transmission, LLC | Other Supplier |
| Yang Wang | NiSource Inc | Not Applicable |
| Cathleen Colbert | NRG Power Marketing LLC | Other Supplier |
| Neal Fitch | NRG Power Marketing LLC | Other Supplier |
| Erik Heinle | Office of the Peoples Counsel for the District of Columbia | Generation Owner |
| Bill Squibb | Ohio Valley Electric | End User Customer |
| Adrien Ford | Old Dominion Electric Cooperative | Generation Owner |
| Gregory Carmean | OPSI | Electric Distributor |
| Regina Carrado | PECO Energy Company | Not Applicable |
| Douglas Dale | PECO Energy Company | Transmission Owner |
| Dale Douglas | PECO Energy Company | Transmission Owner |
| Pulin Shah | PECO Energy Company | Transmission Owner |
| Amber Young | PEPCO Holdings, Inc. | Transmission Owner |
| David Anders | PJM Interconnection, LLC | Not Applicable |
| Scott Baker | PJM Interconnection, LLC | Not Applicable |
| Fran Barrett | PJM Interconnection, LLC | Not Applicable |
| Jerry Bell | PJM Interconnection, LLC | Not Applicable |
| Aaron Berner | PJM Interconnection, LLC | Not Applicable |
| Brian Chmielewski | PJM Interconnection, LLC | Not Applicable |
| Kyle Clifford | PJM Interconnection, LLC | Not Applicable |
| Jason Connell | PJM Interconnection, LLC | Not Applicable |
| Ilyana Dropkin | PJM Interconnection, LLC | Not Applicable |
| Nicolae Dumitriu | PJM Interconnection, LLC | Not Applicable |
| David Egan | PJM Interconnection, LLC | Not Applicable |
| Janell Fabiano | PJM Interconnection, LLC | Not Applicable |
| Thomas Falin | PJM Interconnection, LLC | Not Applicable |
| Lawrence Farmer | PJM Interconnection, LLC | Not Applicable |
| Pauline Foley | PJM Interconnection, LLC | Not Applicable |
| Darrell Frogg | PJM Interconnection, LLC | Not Applicable |
| Suzanne Glatz | PJM Interconnection, LLC | Not Applicable |
| Jim Glennon | PJM Interconnection, LLC | Not Applicable |
| Michele Greening | PJM Interconnection, LLC | Not Applicable |
| Suzanne Herel | PJM Interconnection, LLC | Not Applicable |
| Steve Herling | PJM Interconnection, LLC | Not Applicable |
| Michael Herman | PJM Interconnection, LLC | Not Applicable |
| Liem Hoang | PJM Interconnection, LLC | Not Applicable |
| Trung Hoang | PJM Interconnection, LLC | Not Applicable |
| Tim Horger | PJM Interconnection, LLC | Not Applicable |
| Eric Hsia | PJM Interconnection, LLC | Not Applicable |
| Mark Kuras | PJM Interconnection, LLC | Not Applicable |
| Matt LaRocque | PJM Interconnection, LLC | Not Applicable |
| Jay Liu | PJM Interconnection, LLC | Not Applicable |
| Brindavani Malladi | PJM Interconnection, LLC | Not Applicable |
| Lagy Mathew | PJM Interconnection, LLC | Not Applicable |
| Susan McGill | PJM Interconnection, LLC | Not Applicable |
| Paul McGlynn | PJM Interconnection, LLC | Not Applicable |
| Niloufar Mirhosseini | PJM Interconnection, LLC | Not Applicable |



Draft Meeting Minutes

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|------------------------|--|--------------------|
| Jason Quevada | PJM Interconnection, LLC | Not Applicable |
| John Reynolds | PJM Interconnection, LLC | Not Applicable |
| Ken Schuyler | PJM Interconnection, LLC | Not Applicable |
| Mark Sims | PJM Interconnection, LLC | Not Applicable |
| Julia Spatafore | PJM Interconnection, LLC | Not Applicable |
| Mark Stanisz | PJM Interconnection, LLC | Not Applicable |
| Henry (Jack) Thomas | PJM Interconnection, LLC | Not Applicable |
| Preston Walker | PJM Interconnection, LLC | Not Applicable |
| Laura Walter | PJM Interconnection, LLC | Not Applicable |
| Phil Yum | PJM Interconnection, LLC | Not Applicable |
| Zelalem Tekle | PowerGEM | Not Applicable |
| Shadab Ali | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| John Feller | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Orlando Marrero-Torres | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Steven Nadel | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Reynaldo Noel | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| David Quier | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Cleveland Richards | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Christopher Szmodis | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Amber Thomas | PPL Electric Utilities Corp. dba PPL Utilities | Transmission Owner |
| Gary Greiner | PSEG Energy Resources and Trade LLC | Transmission Owner |
| Cameron DeAngelis | Public Service Electric & Gas Company | Transmission Owner |
| Garan Gunn | 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 |
| Alex Stern | Public Service Electric & Gas Company | Transmission Owner |
| Debbie Gebolys | Public Utilities Commission of Ohio (The) | Not Applicable |
| Tom Hoatson | Riverside Generating, LLC | Other Supplier |
| Jame Huang | Rockland Electric Company | Transmission Owner |
| Brian O'Boyle | Rockland Electric Company | Transmission Owner |
| Christen Smith | RTO Insider | Not Applicable |
| Gerry Binder | SESCO Enterprises LLC | Other Supplier |
| Jennifer Hohenshilt | Talen Energy Marketing, LLC | Generation Owner |
| Kenneth Folandare | Tangibl | Not Applicable |
| Syed Ahmad | The Federal Energy Regulatory Commission | Not Applicable |
| Valerie Martin | The Federal Energy Regulatory Commission | Not Applicable |
| John Sillin | The Federal Energy Regulatory Commission | Not Applicable |
| Adam Weber | Union Electric Company d/b/a Ameren Missouri | Other Supplier |
| David Essah | Virginia State Corporation Commission | Not Applicable |
| Ronnie Bailey | Virginia Electric & Power Company | Transmission Owner |
| Craig Crider | Virginia Electric & Power Company | Transmission Owner |
| Chris Mertz | Virginia Electric & Power Company | Transmission Owner |
| Chad Dixon | Viridity Energy, Inc. | Other Supplier |

Author: Anisha Fernandes