



Meeting Minutes
PJM Interconnection
PJM Planning Committee
PJM Conference and Training Center
Valley Forge, PA
September 2nd, 2014
9:30 AM

Members Present:

Rich Geosits	Allegheny Electric Cooperative, Inc.
Patricia Hayes	Ameren
Kiran Thammineni	Ameren
Takis Laios	American Electric Power
Chris Norton	American Municipal Power, Inc.
Mike Schlindwein	American Transmission Company, Inc.
Dale Burmester	American Transmission Company, LLC
Gary Fuerst	American Transmission Systems, Inc.
Chris Hagman	American Transmission Systems, Inc.
Mike Schlindwein	American Transmission Systems, Inc.
Brock Ondayko	Appalachain Power Company
Kevin Patten	Appalachain Power Company
Craig Lockwood	Appalachian Power Company
Chris Knight	Argus Media
Mohamed El gasseir	Atlantic Grid Operations A, LLC
Patricia Esposito	Atlantic Grid Operations A, LLC
David Bloom	Baltimore Gas and Electric Company
Zelalem Tekle	Baltimore Gas and Electric Company
James Jablonski	Borough of Butler, Butler Electric Division
Ron Pezon	Borough of Chambersburg
Mohan Sachdeva	Buckeye Power
Wil Burns	Burns Law Firm
Jakob Metzler	Castleton Commodities Merchant Trading L.P.
Yan Du	Central Transmission, LLC
Diana Rivera	Clean Line Energy
Deral Danis	CLEAN LINE ENERGY PARTNERS LLC
Tom Leeming	Comed
William Allen	Commonwealth Edison Company
Paul Mills	Commonwealth Edison Company
Martin Paszek	Con Edison
Rehan Gilani	ConEdison Energy, Inc.
Bill Dugan	Customized Energy Solutions, Ltd.*
Guy Filomena	Customized Energy Solutions, Ltd.*
Carl Johnson	Customized Energy Solutions, Ltd.*
Hertzel Shamash	Dayton Power & Light Company (The)
John Farber	DE Public Service Commission
Jaclyn Cantler	Delmarva Power & Light Company
Michael Erbrick	DhastCo, LLC



Andrea Maucher	Division of the Public Advocate of the State of Delaware
Harold Payne	Dominion Virginia Power
George Owens	Downes Associates, Inc.
John Horstman	DP&L
Gregory Pakela	DTE Energy Trading, Inc.
Nancy Connelly	Duke Energy
Kenneth Jennings	Duke Energy Business Services LLC
Steve Steinkuhl	Duke Energy Business Services LLC
Ed Kirschner	Duke Energy Business Services LLC
Jason Harchick	Duquesne Light Company
James Karcher	Duquesne Light Company
Darrin Adams	East Kentucky Power Cooperative, Inc.
Chuck Dugan	East Kentucky Power Cooperative, Inc.
Malcolm Ainspan	Energy Curtailment Specialists, Inc.
Kevin Thundiyl	Exelon
Jason Barker	Exelon Business Services Company, LLC
Melanie Sanders	Exelon Business Services Company, LLC
Rebecca Stadelmeyer	Exelon Business Services Company, LLC
John Sillin	FERC
Thomas Bainbridge	FirstEnergy Solutions Corporation
Jim Benchek	FirstEnergy Solutions Corporation
Martin Bolan	FirstEnergy Solutions Corporation
John Syner	FirstEnergy Solutions Corporation
Derek Hagaman	GT Power Group
David Pratzon	GT Power Group
James Nash	Hudson Transmission Partners, LLC
Kenneth Foladare	IMG Midstream LLC
Thomas Fecho	Indiana Michigan Power Company
Alex Ma	Invenergy
John Kopinski	ITC MidAtlantic Development LLC
Edward Tsikirayi	Long Island Lighting Company d/b/a LIPA
Ralph De Geeter	Maryland Public Service Commission
Dave Mabry	McNees Wallace & Nurick LLC
Larry Winslow	MISO
Christin Domian	Mitsubishi Electric Power Products Inc.
Nabil Hitti	National Grid
Frank Perrotti	New Jersey Board of Public Utilities
Henry Ogden	New Jersey Division of Rate Counsel (EUC)
George Kogut	New York Power Authority
John Deese	NextEra Energy Transmission, LLC
Jodi Walters	NiSource Inc.
Brian Hamilton	North American Electric Reliability Corporation
James Manning	North Carolina Electric Membership Corporation
Stewart Bayer	Northern Indiana Public Services Company
Miles Taylor	Northern Indiana Public Services Company
Neal Fitch	NRG Power Marketing LLC
Yohannes Mariam	Office of the Peoples Counsel for the District of Columbia
Fred Heizer	Ohio PUC
John Donelson	Old Dominion Electric Cooperative



Steven Lieberman	Old Dominion Electric Cooperative
Ed Tatum	Old Dominion Electric Cooperative
Gregory Carmean	OPSI
Debbie Gebolys	Other
Robert Mechler	Other
P Jeffrey Palermo	Other
Hussam Sehwal	Other
Iris Boci	PECO Energy Company
Frank Brandolisio	PECO Energy Company
Mike Donnelly	PECO Energy Company
Mike Koly	PECO Energy Company
Pulin Shah	PECO Energy Company
Patricia Kurowski	PEPCO
Amber Young	PEPCO Holdings, Inc.
John Brodbeck	Potomac Electric Power Company
Scott Gass	PowerGEM
Vincent Cuce	PPL Electric Utilities Corp. dba PPL Utilities
Lisa Krizenoskas	PPL Electric Utilities Corp. dba PPL Utilities
Shadab Ali	PPL Electric Utilities Corp. dba PPL Utilities (TO)
Michele Greening	PPL EnergyPlus, L.L.C.
Hamid Kazerooni	PPL EnergyPlus, L.L.C.
Mollie Maher	PPL EnergyPlus, L.L.C.
Jim Calore	Public Service Electric & Gas Company
Esam Khadr	Public Service Electric & Gas Company
James Stanton	Quanta Tech
Ray Mason	RFC
Tom Hoatson	Riverside Generating, LLC
Pamela Quinlan	Rockland Electric Company
Rich Heidorn	RTO Insider
Anuj Kapadia	Smart Wire Grid, Inc.
Jack Halpern	Stantec
Esther Whieldon	The Federal Energy Regulatory
Adam Weber	Union Electric Company d/b/a Ameren Missouri
Yohan Sutjandra	University of Texas
Ronnie Bailey	Virginia Electric & Power Company
Michael Batta	Virginia Electric & Power Company
Peter nedwick	Virginia Electric & Power Company
Dan Jackson	Virginia Electric Power Company
James Wilson	Wilson Energy Economics

PJM Staff Present:

Steve Herling, Chairman	PJM Interconnection, LLC
Muhsin Abdurrahman	PJM Interconnection, LLC
David Anders	PJM Interconnection, LLC
Scott Baker	PJM Interconnection, LLC
Francis Barrett	PJM Interconnection, LLC



Aaron Berner	PJM Interconnection, LLC
Bridgid Cummings	PJM Interconnection, LLC
Ray Dotter	PJM Interconnection, LLC
David Egan	PJM Interconnection, LLC
Janell Fabiano	PJM Interconnection, LLC
Tom Falin	PJM Interconnection, LLC
Zhenyu Fan	PJM Interconnection, LLC
Pauline Foley	PJM Interconnection, LLC
Andrew Gledhill	PJM Interconnection, LLC
James Glennon	PJM Interconnection, LLC
Tim Horger	PJM Interconnection, LLC
Bhavana Keshavamurthy	PJM Interconnection, LLC
Frank Koza	PJM Interconnection, LLC
Mark Kuras	PJM Interconnection, LLC
Matthew LaRocque	PJM Interconnection, LLC
Chuck Liebold	PJM Interconnection, LLC
Erich Mauroschadt	PJM Interconnection, LLC
Jason Queveda	PJM Interconnection, LLC
John Reynolds	PJM Interconnection, LLC
Patricio Rocha-Garrido	PJM Interconnection, LLC
Ken Schuyler	PJM Interconnection, LLC
Michelle Shea	PJM Interconnection, LLC
Jason Shoemaker	PJM Interconnection, LLC
Mark Sims	PJM Interconnection, LLC
Jim Snow	PJM Interconnection, LLC
Mike Ward	PJM Interconnection, LLC
Michael Herman, Secretary	PJM Interconnection, LLC

1. ADMINISTRATION

- A. Mr. Herling called the meeting to order and asked if the Planning Committee had any additional items for the agenda. There were no suggestions for additional agenda items.
- B. Mr. Herling noted that attendance would be taken by roll call sheets being circulated at the Planning Committee meetings moving forward. He also noted that WebEx attendees would be captured through their login credentials. After which, Mr. Herling asked Mr. Herman to review the minutes. Then Mr. Herman reviewed the meeting minutes of the August 7th, 2014 Planning Committee meeting. Mr. Pratzon then made a motion to approve the minutes. Mrs. Esposito seconded the motion. In a voice vote, the Planning Committee approved the August 7th, 2014 Planning Committee minutes.
- C. Mr. Sims provided an update on upcoming NERC standard PRC-023-3 Transmission Relay Loadability. Mr. Sims stated that the main change from PRC-023-2 is that the new standard excludes protection systems of transmission elements that only serve generation. Mr. Sims stated that these elements will be covered under a new standard PRC-025-1 moving forward. Mr. Sims additionally stated that the list of PRC-023 facilities from 2014 would not change at all if the new PRC-023-3 standard had been in place at the time of



that analysis. The 2015 PRC-023-3 list will use the updated method and will be released per PJM's typical schedule in the 2nd quarter of 2015.

2. NERC/RRO UPDATE

Mr. Kuras provided the Planning Committee with an update on recent NERC activities and PJM compliance activities. A new version of PRC-005 has been posted in which the Balancing Authority was removed from the list of applicable functional entities. Certain subrequirements within R3 and R4 of this standard were also removed. Additional standards under development include TPL and IRO standards which are being updated for administrative consolidation. Bal-002, PRC-026 and PRC-006 were also posted for comment.

3. SMART INVERTERS PROPOSAL PACKAGE

Mrs. Keshavamurthy presented a first read of PJM's recommended package for enhanced inverters. The presentation included key work activities accomplished by the group; a Process recap, Polling results including 98.55% of respondents in support of PJM's package; Applicability; Package details and next steps which include seeking endorsement at the October Planning Committee meeting.

4. 2015 PRELIMINARY PROJECT BUDGET

Mr. Snow reviewed PJM's 2015 preliminary project budget including details of historical annual capital expenditures and a summary of the projects included in the preliminary 2015 capital budget. This presentation has been or will also be given to the Members Committee, Operating Committee and the Finance Committee. Mr. Snow stated that the Finance Committee will make a recommendation to the PJM Board of Managers by in early October 2014 on the 2015 budget.

5. MANUAL 19 CHANGES FOR LOAD FORECAST ADJUSTMENT *

Mr. Reynolds provided an update regarding clarifying the current load forecast adjustment process. The changes would allow PJM to adjust the load forecast based on known upcoming load changes and by introducing a binary variable into affected zone's where a known change has occurred. Mr. Reynolds revised the proposed language based on input received including examples for the proposed changes that would be implemented. Mr. Herling asked the Planning Committee to endorse the Manual 19 changes. Mr. Pratzon made a motion to endorse the Manual 19 update. Mrs. Esposito seconded the motion. **IN A VOICE VOTE, THE PLANNING COMMITTEE ENDORSED CHANGES TO MANUAL 19 REGARDING LOAD FORECAST ADJUSTMENT. ***

6. MANUAL 14A CHANGES FOR SMALL GENERATOR

Mrs. Shea provided a first read of PJM Manual 14A changes regarding Small Generator Interconnection Procedures pre-application process. These changes are required by Order 792 and will become effective November 1, 2014 pending committee endorsement. At the time of the presentation Mrs. Shea pointed out two typos which have since been corrected and reposted along with meeting materials. Mrs. Shea stated that she would return to the October Planning Committee meeting to seek endorsement of these manual changes.

7. TO CRITERIA DISCUSSION

Mr. McGlynn began this discussion with an overview of the process for making changes to Transmission Owner Criteria. Mr. McGlynn then stated that for all future changes to Transmission Owner criteria which impact RTEP upgrades, PJM will require the Transmission Owner to give a presentation to the Planning Committee regarding



these changes.

Following Mr. McGlynns discussion, Mr. Bailey from Dominion Virginia Power gave a presentation on Dominions new Transmission Owner criteria around End of life. Mr. Bailey stated that this criteria would be based on two metrics: 1) Facility is nearing, or has already passed its end of life, and 2) Continued operation risks negatively impacting reliability of the transmission system.

A full listing of all Transmission Owner Criteria can be found on PJM’s Transmission Owner Planning Criteria page. It was noted that the possibility exists that a TO criteria projects may be eligible for inclusion in the proposal window process.

8. PRELIMINARY 2014 IRM STUDY RESULTS

Mr. Gledhill reviewed the 2014 IRM study results. This review included a decomposition of the change; Historical weighted-average forced outage rates and next steps including seeking endorsement of the IRM at the October Planning Committee meeting.

9. DIRECTIONAL COMPARISON BLOCKING LINE RELAY ISSUE UPDATE

PJM staff issued the Relay Subcommittee a Charge Statement regarding the Directional Carrier Blocking (DCB) Line relay issue. PJM posted a draft charge statement stating that DCB line protection schemes are susceptible to overtrips that could cause instability and PJM is seeking to test these TPL Type D contingencies to determine their impacts on BES facilities. A data request and timeline of submittals has been noted in the draft charge statement. This problem statement has now been assigned to the Relay Subcommittee, which will return to future planning committee meetings with updates on progress.

10. PROPOSAL WINDOW LESSONS LEARNED

Mr. Barrett led a discussion on the results of the PJM Window Process – Lessons learned poll. Mr. Barrett reviewed the top voted items and sought feedback on these items as PJM moves forward with lessons learned. Members agreed that PJM should focus on the top 5 voted items, while putting other items on hold for the immediate future. Mr. Barrett discussed items currently underway including access to substation data and a secure file transfer product. PJM staff will look to consolidate similar or lined items. Progress on the top 5 lessons learned will be discussed at future Planning Committee meetings.

11. FUTURE AGENDA ITEMS

There were no future agenda times suggested.

12. FUTURE MEETING DATES

Thursday, October 9, 2014	9:30 AM	PJM Conference and Training Center, Valley Forge, PA
Tuesday, November 4, 2014	9:30 AM	PJM Conference and Training Center, Valley Forge, PA
Thursday, December 4, 2014	9:30 AM	PJM Conference and Training Center, Valley Forge, PA



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