



DRAFT MINUTES
PJM Interconnection
PJM Operating Committee (204th Meeting)
PJM Conference and Training Center
Thursday, September 4th, 2014
9:00 AM

Members Present:

Mike Bryson, Chair
Heather Reiter, Secretary
Jim Bencheck
Elizabeth Davis
Derek Hagaman
Rich Heidorn
John Horstmann
Carl Johnson
George Kogut
Joel Luna
David Pratzon
Rebecca Stadelmeyer

PJM Interconnection
PJM Interconnection
FirstEnergy Solutions Corporation
PPL Energy Plus, LLC
GT Power Group
RTO Insider
Dayton Power & Light Company
Customized Energy Solutions, Ltd.
New York Power Authority
Monitoring Analytics, LLC
GT Power Group
Exelon Business Services Company, LLC

Members Present via Conference Call:

Malcolm Ainspan
Omar Aslam
Mike Berlinski
Martin Bolan
Michael Borgatti
Charles Bonner
Bruce Campbell
Gregory Carmean
Ralph DeGeeter
Ralph DeVitto
Chuck Dugan
Bruce Erickson
Patricia Esposito
John Farber
Guy Filomena
John Garavaglia

Energy Curtailment Specialists, Inc.
Federal Energy Regulatory Commission
Customized Energy Solutions, Inc.
First Energy Solutions Corporation
Gable and Associates
Dominion Virginia Power
EnergyConnect, Inc.
OPSI
Maryland Public Service Commission
Rockland Electric Company
East Kentucky Power Cooperative, Inc.
Allegheny Electric Cooperative, Inc.
Atlantic Grid Operations A, LLC
DE Public Service Commission
Customized Energy Solutions, LLC
Commonwealth Edison Company



Terry Gates
Don Gebele
Debbie Gebolys
Rehan Gilani
Dan Griffiths
Fred Heizer
Tom Hoatson
Andrew Hunter
Tom Hyzinski
Siva Josyula
Steve Kelly
Steve Kimmish
Alex Ma
David Mabry
Cindy Markiewicz
Shailabh Mazari
Lisa McAlister
Jakob Metzler
Sunit Mitra
John Moraski
Kerry Neubrandner
Chris Norton
Brock Ondayko
Kevin Patten
Robert Pleiss
Paul Santarelli
David Scarpignato
Charles Scott
John Sillin
Chris Shaffer
Louis Slade
Jacquie Smith
Bryan Sock
Vince Stefanowicz
David Weaver
Ronald Wharton
Doug White
Caroline Wozniak

AEP
Dayton Power & Light Company
Ohio PUC
ConEdison Energy, Inc.
Consumer Advocates of PJM States
Ohio PUC
Riverside Generating, LLC
FirstEnergy Corporation
PPL Energy Plus
Monitoring Analytics, LLC
Brookfield Renewable
PSEG Energy Resources and Trade LLC
Invenergy
McNees Wallace & Nurick LLC
Allegheny Power
Duke Energy Ohio, Inc.
American Municipal Power, Inc.
Castleton Commodities Merchant
PEPCO Holdings Inc.
Baltimore Gas and electric Company
DC Energy Mid-Atlantic, LLC
American Municipal Power, Inc.
Appalachian Power Company
Appalachian Power Company
Constellation Energy
PPL Electric Utilities Corp.
Direct Energy Business, LLC
DC Energy LLC
Federal Energy Regulatory Commission
Appalachian Power Company
Virginia Electric & Power Company
ReliabiltyFirst Corporation
PSEG Energy Resources and Trade LLC
PPL Energy Plus
PECO Energy Company
Public Service Electric & Gas Company
North Carolina Electric Membership Corp
Federal Energy Regulatory Commission

Also Present:

Dave Anders

PJM Interconnection



- B. Ms. Hendrzak led a discussion to review and prioritize the general data parameter requirements.
- C. Ms. Hendrzak and Mr. Boyle led a review of the PJM and Generation Owner requirements and proposed additional data fields.

3. COLD WEATHER RESOURCE IMPROVEMENT

- A. Mr. Hsia reviewed the cost analysis of the winter test. Analysis follow up will be given at the September 17th Cold Weather Resource Conference Call.
- B. Ms. Reiter reviewed the proposed solution package. ****The Operating Committee will be asked to approve the solution package at its next meeting.**
- C. Ms. Reiter reviewed the Manual 14D changes that will go with the proposed package. A new section 7.5 Cold Weather Generation Resource Preparation and a new Attachment N: Cold Weather Preparation Guideline and Checklist will be added. ****The Operating Committee will be asked to endorse the manual language at its next meeting.**

4. REVIEW OF OPERATIONS

- Mr. Pulong reviewed PJM Operations since the last Operating Committee (OC) Meeting.
- Mr. Pulong provided a summary of the August 27th, 2014 SOS meeting. Updates included Minimum Generation Reporting, EMS Model Updates, Load Dump Rating Methodology and PCLLRW Issuance Tool.

5. MANUAL ENDORSEMENTS

- A. Mr. Schweizer reviewed changes to Manual 14D: Generator Operational Requirements. Changes include a new section 4.1.2 on Jetstream, updated eDART description in section 5.3.4, various changes in section 7, revised section 8.2.3 on real-time meteorological tower for consistency with Tariff and Interconnection Service Agreement requirements, and changes to Attachments D and M. Attachment F was deleted. Other significant changes included Attachment E, PJM Generator and Synchronous Condenser Reactive Capability Testing to align with NERC Reliability Standard MOD-025-2. ****The Operating Committee endorsed these changes with 0 objections and 2 abstentions.**
- B. Mr. Olaley presented proposed revisions to Manual 11: Energy & Ancillary Services Market Operations and Manual 28: Operating Agreement Accounting regarding the applicability for Tier 1 Capability compensation. ****The Operating Committee endorsed these changes with 0 objections and 1 abstention.**
- C. Mr. Olaley presented proposed revisions to Manual 11: Energy & Ancillary Services Market Operations and Manual 15: Cost Development Guidelines relating to the Regulation Performance



Cost Equation. ****The Operating Committee endorsed these changes with 0 objections and 0 abstentions.**

6. TRANSMISSION OWNER DATA FEED

Ms. Huang presented the solution package for the TO Data Feed Issue, including proposed Manual and OA changes. The proposal focuses on streamlining the TO Data Feed process without minimizing the level of protection of the data. Manual 14D changes are being proposed under section 11 and Attachments I, J, and K. Proposed OA changes are adding a new 18.17.7: Disclosure of Generator Data to Transmission Owners section and minor changes to section 18.17.6 to align with section 18.17.7.

****The Operating Committee will be asked to approve the solution package at its next meeting.**

7. SYNCHROPHASOR TOOL UPDATE

Mr. Hislop provided an update to the Synchrophasor Tools. Topics discussed were data quality, real-time monitoring, post event analysis, and EMS Incorporation. Future development includes Linear State Estimation, Eastern Interconnection data sharing through EIDSN, and Model Validation.

8. TO OUTAGE SUBMITTALS METRICS

Mr. Mathew reviewed the TO Outage Submittal Metrics from January thru July 2014. On-time submittals and outage cancellation percentages are similar to the previous year.

9. BAL-003 FREQUENCY RESPONSE ROLLOUT

Mr. Gordon introduced the BAL-003 Frequency Response rollout. With FERC approval of the NERC standard, PJM plans to start contacting individual GOs regarding their unit response and governor settings beginning 3rd quarter of 2014. PJM's Frequency Response Initiative Objectives include working with the GOs to understand how units are responding to frequency events, improve primary frequency response predictability, and increase primary frequency response and reduce compliance risk.

10. PJM 2015 PROJECT SUMMARY

Mr. Snow discussed the preliminary 2015 PJM Projects. By October 30th, the consideration of Proposed 2015 Budget will go to the Board of Managers.

11. PRICING INTERFACES

Mr. Ciabattone reviewed the new BLKRIVER and Warren Interfaces. The BLKRIVER Interface is in the ATSI transmission zone and is effective from September 1st to October 31st, 2014. The Warren Interface is in the PN transmission zone and is effective September 2nd, 2014 until further notice.



12. **COMBINED CYCLE UPDATE**

Mr. Hauske provided an update on information learned from SPP experiences regarding the combined cycle modeling initiative.

13. **2013 HOT WEATHER RECOMMENDATIONS UPDATE**

Mr. Souder provided an update on the 2013 Hot Weather Recommendations.

14. **2014 COLD WEATHER RECOMMENDATIONS UPDATE**

Ms. Hendrzak provided an update on the 2014 Cold Weather Recommendations.

15. **MANUAL FIRST READS**

Mr. Boyle reviewed changes to Manual 01: Control Center and Data Exchange Requirements related to COM-002-4 Operator Communications. The changes include removal of existing section 4.2.4 and adding a new section 4.3 PJM Communication Protocol. Both sections will remain in the manual in parallel until the new standard is implemented in 2015. Some changes since the first read in July include removal of 'NERC entities' for applicability, and replacing it with 'PJM operators and operators at member companies that issue/receive operating instructions.' It was also clarified that operators should use their LAST name at a minimum for phone communications. There was a request from a member company to add language to the manual regarding 'All Call' messages and wording to be used once the message is over. **The Operating Committee will be asked to endorse these changes at its next meeting.

16. **ENHANCED INVERTER INITIATIVE**

Ms. Keshavamurthy provided an update on the Planning Committee's Enhanced Inverter Initiative.

17. **NERC/RFC UPDATE**

Mr. Kuras provided an update on NERC, SERC, RFC, and NAESB Regional Standards. PRC-005-X: Project 2007-17.3 Protection System Maintenance and Testing Phase 3 (Sudden Pressure Relays) has a comment period from 7/30/14 – 9/12/14 and ballot period from 9/3/14 – 9/12/14. TOP-001-3, TOP-002-4, TOP-003-3, IRO-001-4, IRO-002-4, IRO-008-2, IRO-010-2, IRO-014-3, and IRO-017-1: Project 2014-03 Revisions to TOP and IRO Standards has a comment period of 8/6/14 – 9/19/14 and a ballot period of 9/10/14 – 9/19/14. Companies are requested to contact Mark Kuras to schedule TO/TOP Audits.

18. **COMMITTEE/SUBCOMMITTEE/WORKING GROUP UPDATES**

The OC discussed that going forward any committee update that is given at the Members Committee Webinar is not needed at the Operating Committee.



19. FUTURE OC MEETINGS

October 7, 2014	PJM Conference and Training Center	9:00 AM
November 6, 2014(Thursday)	PJM Conference and Training Center	9:00 AM
December 2, 2014	PJM Conference and Training Center	9:00 AM

Author: Heather Reiter
Typist: Heather Reiter

Anti-trust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

Public Meetings/Media Participation:

Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. PJM Members are also not allowed to create audio, video or online recordings of PJM meetings.