

Operating Committee
PJM Conference & Training Center, Audubon, PA
February 6, 2018
9:00 a.m. – 12:00 p.m. EPT

Administration

1. The February 6 Operating Committee (OC) Agenda was approved.
2. Draft Minutes of the January 9, 2018 Operating Committee meeting were approved.
3. The Operating Committee Work Plan was approved.
- 3a. Mr. Don Wallin, PJM, provided a reminder to the Operating Committee of the Operating Committee Special Session –PJM RTO Wide Black Start RFP Informational Webinar following the regular meeting.

Review of Operations

4. **Review of Operational Events**
Mr. Donnie Bielak, PJM, reviewed PJM operations since the last OC Meeting. PJM is finalizing the analysis from the cold weather period and will share more details when the Winter Weather report is issued in the next few weeks.
5. **Review of Operating Metrics**
Mr. Joe Ciabattoni, PJM, reviewed the PJM Operating Metrics slides updated with January metrics data. Metrics included PJM's load forecast error, BAAL performance, transmission / generation outage statistics, and Perfect Dispatch historical performance. Discussions were held regarding why shortage pricing didn't trigger during the cold weather event. The impact of cold weather conditions on Perfect Dispatch performance was also discussed. PJM will provide more details on these issues in the Winter Report.

Endorsements/Approvals

6. **Dispatcher Training Subcommittee (DTS) Charter Changes**
Mr. Don Wallin, PJM, reviewed the proposed changes to the Dispatcher Training Subcommittee (DTS) charter for the inclusion of Human Performance (HP) as a regular discussion topic. Following discussion, the Operating Committee **endorsed** these changes by acclamation with no objections or abstentions.

First Readings

7. **Manual 01 Changes**
Ms. Bilge Derin, PJM, reviewed the proposed changes to Manual 01: Control Center and Data Exchange Requirements. **The Operating Committee will be asked to endorse these changes at the next OC meeting.**

8. Manual 03A Changes

Mr. Andy Ford, PJM, reviewed the proposed changes to Manual 3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA). The Operating Committee will be asked to endorse these changes at the next OC meeting.

9. Manual 37 Changes

Mr. Donnie Bielak, PJM, reviewed the proposed changes to Manual 37: Reliability Coordination. A discussion was held regarding whether the proposed changes would change existing PJM Post Contingency Local Load Relief (PCLLRW) procedures. It was explained that the proposed changes will not impact the PJM PCLLRW operating procedures. The proposed changes clarify existing manual terminology, ensure consistency between PJM manuals and update PJM internal change management processes. The Operating Committee will be asked to endorse these changes at the next OC meeting.

OC Subcommittee / Task Force Updates

10. System Operations Subcommittee (SOS)

Mr. Don Bielak, PJM, provided a summary of the most recent SOS meeting.

11. Data Management Subcommittee (DMS)

There were no DMS subcommittee updates for this month's meeting.

12. System Restoration Coordinators Subcommittee (SRCS)

Ms. Alpa Jani, PJM, provided a review of the May 2018 Spring Emergency Procedure Drill invitation process via the NERC Compliance Section of Resource Tracker.

13. Primary Frequency Response Sr. Task Force (PFRSTF)

Mr. Glen Boyle, PJM, provided an update on the Primary Frequency Response Sr. Task Force (PFRSTF).

Capacity Performance

14. Unit Specific Parameter Updates

Ms. Alpa Jani, PJM, provided an update on Unit Specific Parameters. Ms. Jani reminded Generation Owners that the Markets Gateway application allows generators to view the status of their unit reporting via the Parameter Limits tab.

15. Performance Assessment Interval Communications Over ICCP Project

Ms. Alpa Jani, PJM, provided an informational update on the Performance Assessment Interval Communications Over ICCP project.

Tool and Informational Updates

16. Manual 12 Changes

Ms. Nicole Militello, PJM, reviewed the proposed changes to Manual 12: – Attachment F: Dynamic Transfer Process Flow Changes.

17. Frequency Response Review

Ms. Danielle Croop, PJM, provided an update on frequency response performance. A discussion was held on frequency response performance certainty and occurrences for units providing frequency response services. These issues are being addressed by the Primary Frequency Response Sr. Task Force (PFRSTF).

18. Regulation Performance Updates

Ms. Danielle Croop, PJM, provided an update on PJM's regulation performance. It was discussed that the changes in PJM's regulation program resulted in improved performance.

19. NERC Lessons Learned

Mr. Donnie Bielak, PJM, reviewed recently posted NERC Lessons Learned reports.

20. Reliability Compliance Update

Mr. Preston Walker, PJM, provided an update on NERC, SERC and RFC standards, and other pertinent regulatory and compliance information, and solicits feedback from the members on Reliability Compliance efforts.

21. Pricing Interface Update

There were no newly created pricing interfaces.

Action Items

Information Only

Manual 39 Changes

Mr. Don Wallin, PJM, reminded the OC that a revision to Manual 39: "Nuclear Plant Interface Coordination" was posted effective January 30, 2018. This revision includes only changes to the Attachment C: "Plant Specific NPIRs Revision History" reflecting recent plant specific nuclear plant interface requirement (NPIR) changes.

Future Meeting Dates

March 6, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center
April 3, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center
May 1, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center
June 5, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center

Author: Don Wallin

In Attendance (In Person)

Last Name	First Name	Company	Sector
Seiler (Chair)	Ken	PJM Interconnection, LLC	Not Applicable

Wallin (Secretary)	Don	PJM Interconnection, LLC	Not Applicable
Benchek	Jim	First Energy Solutions	Transmission Owner
Blair	Tom	Monitoring Analytics, LLC	Not Applicable
Braerman	Ken	Baltimore Gas and Electric	Transmission Owner
Foladare	Kenneth	Tangibl	Not Applicable
Ford	Adrien	Old Dominion Electric Cooperative	Not Applicable
Greiner	Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Hyzinski	Tom	GT Power Group	Not Applicable
Johnson	Carl	Customized Energy Solutions, Ltd.	Not Applicable
Kogut	George	New York Power	Other Supplier
Lowe	Connie	Dominion Virginia Power	Not Applicable
Midgley	Sharon	Exelon Business Services	Transmission Owner
Pratzon	Dave	GT Power Group	Not Applicable
Scarpignato	David	Calpine Energy Services LP	Generation Owner
Stewart	Travis	Gable and Associates	Not Applicable
Sweeney	Rory	RTO Insider	Not Applicable
Trayers	Barry	Citigroup Energy Inc.	Other Supplier
Whitehead	Jeffrey	GT Power Group	Not Applicable

In Attendance (Via Conference Call)

Last Name	First Name	Company	Sector
Ainspan	Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Barker	Jason	Exelon Business Services	Transmission Owner
Bolan	Martin	First Energy Solutions	Transmission Owner

Borgatti	Mike	Gabel and Associates	Not Applicable
Brodbeck	John	EDP Renewables	Other Supplier
Campbell	Bruce	Energy Connect, Inc.	Other Supplier
Chen	Jennifer	Natural Resources Defense Council	Not Applicable
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Cox	Edward	Appalachian Power Company	Transmission Owner
Crystle	Gil	UGI Development	Transmission Owner
Dasher	Brett	Energy Authority, Inc. (The)	Other Supplier
Davis	Becky	Talen Energy Marketing, LLC	Generation Owner
Davis	James	Dominion Energy Marketing, Inc.	Generation Owner
DeGiusto	Vince	UGI Development Company	Generation Owner
DeLosa	Joe	Delaware Public Service Commission	Not Applicable
Dolan	Ryan	AEP Energy Partners, Inc.	Other Supplier
Domian	Christin	Mitsubishi Electric Power Products Inc.	Not Applicable
Dugan	Chuck	East Kentucky Power	Transmission Owner
Evans	Dave	ComEd	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Frederickson	Joe	Public Service Electric & Gas	Transmission Owner
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Giraldo	Juan	Monitoring Analytics LLC.	Not Applicable
Grear	Mark	Constellation Energy	Generation Owner
Hammack	Matt	PPL Electric Utilities Corp. dba PPL	Transmission Owner

		Utilities	
Heisey	Bradley	Wolf Hills Energy, LLC.	Generation Owner
Helms	Joe	Rainbow Energy	Other Supplier
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Hopkins	Sandra	Dominion Virginia Power	Not Applicable
Hozempa	Lawrence	FirstEnergy Solutions Corp.	Transmission Owner
Hunter	Andrew	Metropolitan Edison	Transmission Owner
Janicki	Diane	Boston Energy Trading and Marketing LLC	Generation Owner
Jankowski	Christopher	Talen Energy Marketing, LLC.	Generation Owner
Knernsschild	Jenjira	Old Dominion Electric	Electric Distributor
Kowalczyk	Nick	Orange and Rockland	Transmission Owner
Krawczyk	Leslie	Reliability First Corporation	Not Applicable
Leasure	Jill	Keystone Projects	Not Applicable
Libbos	Robin	FirstEnergy Solutions Corp	Transmission Owner
Lowe	Connie	Dominion Virginia Power	Not Applicable
Mabry	David	McNees Wallace & Nurick LLC	Not Applicable
Markiewicz	Cindy	Allegheny Power	Transmission Owner
Mendelsohn	Mark	Noble Americas Gas & Power	Other Supplier
Miriam	Yohannes	Office of the Peoples Council for the District of Columbia	End User Customer
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
O'Hara	Brian	Noble Americas Gas & Power	Other Supplier
O'Leary	Chris	PSEG Energy Resources and Trade LLC	Other Supplier

Olinger	Rob	Keystone Projects	Not Applicable
Ondayko	Brock	AEP Energy Supply	Generation Owner
Pakela	Gregory	DTE Energy Trading	Other Supplier
Patten	Kevin	AEP Energy, Inc.	Other Supplier
Phillips	Marjorie	Direct Energy Business, LLC	Other Supplier
Poulos	Greg	CAPS	Not Applicable
Pratzon	David	GT Power Group	Not Applicable
Price	Mark	DC Energy Mid-Atlantic LLC	Other Supplier
Price	Ruth	Division of the Public Advocate of the State of Delaware	End User Customer
Ransom	George	Burns & McDowell	Not Applicable
Rohrbach	John	Southern Maryland Electric Cooperative	Electric Distributor
Ruck	Andrew	PSEG Energy Resources and Trade LLC	Other Supplier
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Sauriol	Dennis	AEP Ohio Transmission Company, Inc.	Transmission Owner
Smith	Jacque	Duquesne Light Company	Transmission Owner
Stack	James	Duquesne Light Company	Transmission Owner
Sturgeon	John	Duke Energy Carolinas LLC	Other Supplier
Suh	Jung	Calpine Energy Services LP	Generation Owner
Tsao	Stephanie	S&P Global Market Intelligence	Not Applicable
Wilson	James	Wilson Energy Economics	Not Applicable
Wisersky	Megan	Madison Gas and Electric	Not Applicable

PJM Attendees

Last Name	First Name	Company	Sector
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Bielak	Donnie	PJM Interconnection, LLC	Not Applicable
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Bryson	Mike	PJM Interconnection, LLC	Not Applicable
Ciabattoni	Joe	PJM Interconnection, LLC	Not Applicable
Croop	Danielle	PJM Interconnection, LLC	Not Applicable
Curley	Maureen	PJM Interconnection, LLC	Not Applicable
D'Antonio	Phil	PJM Interconnection, LLC	Not Applicable
Davis	Elizabeth	PJM Interconnection, LLC	Not Applicable
DelViscio	Mike	PJM Interconnection, LLC	Not Applicable
Derin	Bilge	PJM Interconnection, LLC	Not Applicable
Driscoll	Mary Ellen	PJM Interconnection, LLC	Not Applicable
Fernandes	Anisha	PJM Interconnection, LLC	Not Applicable
Ford	Andy	PJM Interconnection, LLC	Not Applicable
Genuario	Gabby	PJM Interconnection, LLC	Not Applicable
Hauske	Thomas	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Herman	Mike	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Jani	Alpa	PJM Interconnection, LLC	Not Applicable
Kimmel	David	PJM Interconnection, LLC	Not Applicable
King	Kendra	PJM Interconnection, LLC	Not Applicable
Lee	Lori Murphy	PJM Interconnection, LLC	Not Applicable
McGlynn	Paul	PJM Interconnection, LLC	Not Applicable

Militello	Nicole	PJM Interconnection, LLC	Not Applicable
Noonan	Casey	PJM Interconnection, LLC	Not Applicable
Scheirer	Alexandra	PJM Interconnection, LLC	Not Applicable
Schweizer	David	PJM Interconnection, LLC	Not Applicable
Stefanowicz	Vince	PJM Interconnection, LLC	Not Applicable
Stone	Andy	PJM Interconnection, LLC	Not Applicable
Strella	Lauren	PJM Interconnection, LLC	Not Applicable
Thomas	Jack	PJM Interconnection, LLC	Not Applicable
Tutino	Joseph	PJM Interconnection, LLC	Not Applicable
Walker	Preston	PJM Interconnection, LLC	Not Applicable

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