

Operating Committee
PJM Conference & Training Center, Audubon, PA
August 7, 2018
9:00 a.m. – 12:00 p.m. EPT

Administration

1. The Operating Committee (OC) Agenda for this meeting was **approved**.
2. The Draft Minutes of the July 10, 2018 OC meeting were **approved**.
3. The Operating Committee Work Plan was reviewed. PJM will continue to solicit input from stakeholders regarding future OC agenda items.
4. Ms. Rebecca Carroll, PJM, provided an informational update on the addition of user impact slides to PJM committee presentations.
- 4a. Mr. Mike Zhang, PJM, provided an informational update regarding PJM's HTTPS change planned for August 15. Additional information can be found through the PJM Tech Change Forum.

Review of Operations

5. Review of Operational Events

Mr. Chris Pulong, PJM, reviewed PJM operations for the month of July.

5a. July 10 Frequency Excursion Event Review

Mr. Chris Pulong, PJM, provided a review of the July 10 frequency excursion event. The Eastern interconnection experienced a steady decline in frequency resulting from generator trips and a possible bad interchange schedule. PJM is conducting an Apparent Cause Analysis (ACA) as well as working with the NERC Resource Subcommittee, which is tasked with finding a cause of the unexpected frequency excursion. PJM will review the results of the ACA once finalized and communicate individual frequency response data to generators, if possible.

5b. Lonesome Pine Area Load Shed Event Review

Mr. Chris Pulong, PJM, provided a review of the July 18 Lonesome Pine area load shed event. The timeline of transmission trippings and actions were reviewed. The Performance Assessment Interval (PAI) resulted in no charges or credits as no generation assets could mitigate the issue within the load pocket.

6. Review of Operating Metrics

Ms. Stephanie Monzon, PJM, reviewed the July 2018 PJM operating metrics slides. Metrics included PJM's load forecast error, BAAL performance, transmission / generation outage statistics, and Perfect Dispatch historical performance. Metrics related to the July 10 Frequency event will be reviewed as part of the Apparent Cause Analysis.

Endorsements/Approvals

There were no endorsements or approvals scheduled for this month's meeting.

First Readings

7. Manual 01 Changes

Ms. Bilge Derin, PJM, reviewed 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.**

OC Subcommittee / Task Force Updates

8. System Operations Subcommittee (SOS)

Mr. Chris Pilong, PJM, provided a summary of the most recent SOS meeting.

9. Data Management Subcommittee (DMS)

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

10. Distributed Energy Resources Subcommittee (DERS)

There were no DERS updates for this month's meeting.

11. System Restoration Coordinators Subcommittee (SRCS)

There were no SRCS updates for this month's meeting.

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

There were no PFRSTF updates for this month's meeting.

Capacity Performance

13. Unit Specific Parameter Updates

Ms. Lauren Strella, PJM, provided an update regarding Unit Specific Parameters with a focus on Soak Time Parameters. PJM will review related language changes in the Tariff and Operating Agreement.

Tool and Informational Updates

14. Fuel Requirements for Black Start Resources Problem Statement and Issue Charge Update

Mr. David Schweizer, PJM, provided an update regarding the Problem Statement and Issue Charge regarding fuel requirements for black start resources. The items were approved at the July 26th MRC meeting and assigned to the OC/MIC special session beginning in December 2018.

15. New Markets Gateway Fields to Support Gas Contingency Automation Update

Mr. Brian Fitzpatrick, PJM, provided an update on new fields created in Markets Gateway to support gas contingency automation. PJM is looking for total gas nomination data for units.

16. NERC Lessons Learned

There were no lessons learned presented at this month's meeting.

17. Reliability Compliance Update

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

18. Pricing Interface Update

There were no newly created pricing interfaces.

Action Items

1. PJM will review how the PCLLRW data is presented and consider different ways to present the information. Targeting September 2018 to present options for stakeholder feedback.
2. PJM will continue coordination in the areas of enhancing the PJM Emergency Procedures Manual (M13) Conservative Operations sections and propose draft manual language at a future OC meeting.
3. PJM will provide findings from the Apparent Cause Analysis for the July 10 Frequency Excursion event along with any NERC Resource Subcommittee findings.
4. PJM will follow up on status of soak time language updates in the PJM Tariff and Operating Agreement.

Membership Management Community: Contact Management Update

PJM's new [Contact Management](#) feature in the Membership Management Community is scheduled to be released in late August. Access to the new feature will be provided to Contact Managers for each member. As a reminder, Contact Managers can use the new feature to review and provide contacts for certain member level roles that have been identified by PJM. Additional information, including instructions for accessing and using the tool, will be presented at the August Tech Change Forum and provided to Contact Managers via email. An update will also be provided at September committee meetings. For more information on this community or the Contact Management feature, please contact membershipforms@pjm.com.

Future Meeting Dates

September 11, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center
October 9, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center
November 6, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center
December 11, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center

Author: Mike Zhang

In Attendance (In Person)

Last Name	First Name	Company	Sector
Souder (Chair)	Dave	PJM Interconnection, LLC	Not Applicable

Zhang (Secretary)	Mike	PJM Interconnection, LLC	Not Applicable
Benchek	Jim	First Energy Solutions Corporation	Transmission Owner
Braerman	Kenneth	Baltimore Gas & Electric	Transmission Owner
Cerchio	Gerard	Monitoring Analytics, LLC	Not Applicable
Fitch	Neal	NRG Power Marketing LLC	Generation Owner
Foldare	Kenneth	Tangibl	Not Applicable
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Greiner	Gary	PSEG Energy Resources and Trading	Other Supplier
Hyzinski	Tom	GT Power Group	Not Applicable
Johnson	Carl	Customized Energy Solutions	Not Applicable
Kauffman	Brian	EnerNOC, Inc.	Other Supplier
Kogut	George	New York Power	Other Supplier
Lieberman	Steven	American Municipal Power	Electric Distributor
Lowe	Connie	Dominion Virginia Power	Not Applicable
Pratzen	Dave	GT Power Group	Not Applicable
Scarpignato	David	Calpine Energy Services, LP	Generation Owner
Stewart	Travis	Gabel 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

Alfayyoumi	Mohammed	Dominion Virginia Power	Not Applicable
Andersen	Jared	S&P Global Platts	Not Applicable
Bonner	Charles	Dominion Virginia Power	Not Applicable
Brodbeck	John	EDP Renewables North America	Other Supplier
Crudup	Larry	Customized Energy Solutions, Ltd.	Not Applicable
D'Alessandris	Lou	First Energy Solutions Corporation	Transmission Owner
DeGiusto	Vince	UGI Development	Generation Owner
Dugan	Chuck	East Kentucky Power Cooperative	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Gagen	Rod	Dominion Virginia Power	Not Applicable
Gahimer	Michael	Indiana Office of Utility Consumer Counselor	Not Applicable
Gebele	Don	Dayton Power & Light	Transmission Owner
Gebolys	Debbie	The Public Utilities Commission of Ohio	Not Applicable
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier
Grear	Mark	Constellation Energy	Generation Owner
Guntle	Vince	UGI Development	Generation Owner
Hanebuth	Michele	Consolidated Edison	Transmission Owner
Hastings	David	Market Interconnection	Not Applicable
Heisey	Bradley	Tenaska	Generation Owner
Horstmann	John	Dayton Power & Light	Transmission Owner
Janicki	Diane	Boston Energy Trading and Marketing LLC	Generation Owner
Kelley	Ryan	Duke Energy Ohio Inc.	Transmission Owner

Kinser	Cynthia	Tennessee Department of Agriculture	Not Applicable
Krawczyk	Leslie	Reliability First Corporation	Not Applicable
Libbos	Robin	First Energy Solutions Corporation	Transmission Owner
Lumbrazo	Laura	Orange and Rockland	Transmission Owner
Mabry	Dave	McNees Wallace & Nurick LLC	Not Applicable
Markiewicz	Cindy	First Energy Solutions Corporation	Transmission Owner
Marton	David	First Energy Solutions Corporation	Transmission Owner
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
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
Phillips	Rod	American Transmission Systems, Inc.	Transmission Owner
Poulos	Greg	CAPS	Not Applicable
Runowski	Brian	Commonwealth Edison	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Schneider	Jon	First Energy	Transmission Owner
Smith	Jacquie	Duquesne Light Company	Transmission Owner
Schneider	John	Duquesne Light Company	Transmission Owner
Sturgeon	John	Duke Energy Carolinas LLC	Other Supplier
Thiry	Brian	Reliability First Corporation	Not Applicable
Tsao	Stephanie	SPGlobal	Not Applicable
Turkaly	Joy	Pennsylvania Independent Oil & Gas	Not Applicable

		Association	
Whitehead	Jeffrey	GT Power Group	Not Applicable

PJM Attendees

Last Name	First Name	Company	Sector
Anders	Dave	PJM Interconnection, LLC	Not Applicable
Bennett	Dan	PJM Interconnection, LLC	Not Applicable
Bielak	Donnie	PJM Interconnection, LLC	Not Applicable
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Bryson	Mike	PJM Interconnection, LLC	Not Applicable
Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Ciabattoni	Joe	PJM Interconnection, LLC	Not Applicable
Davis	Elizabeth	PJM Interconnection, LLC	Not Applicable
Derin	Bilge	PJM Interconnection, LLC	Not Applicable
Fitzpatrick	Brian	PJM Interconnection, LLC	Not Applicable
Fry	Brian	PJM Interconnection, LLC	Not Applicable
Genuario	Gabrielle	PJM Interconnection, LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Handlin	Mike	PJM Interconnection, LLC	Not Applicable
Herel	Suzanne	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Kenney	Susan	PJM Interconnection, LLC	Not Applicable
Kimmel	David	PJM Interconnection, LLC	Not Applicable
McGlynn	Paul	PJM Interconnection, LLC	Not Applicable

Monzon	Stephanie	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Schmitt	Jeff	PJM Interconnection, LLC	Not Applicable
Schweizer	David	PJM Interconnection, LLC	Not Applicable
Tam	Simon	PJM Interconnection, LLC	Not Applicable
Vogel	Shannon	PJM Interconnection, LLC	Not Applicable