

Operating Committee
PJM Conference & Training Center, Audubon, PA
July 10, 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 June 5, 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. Mr. Tom Zadlo, PJM, provided a reminder that flat files will no longer be posted on the PJM website. This data is available from the Data Miner application on pjm.com.
5. Mr. Don Wallin, PJM, provided an update on the University Park North RAS/SPS status. Work has been completed under eDART ticket 749273 and University Park North RAS/SPS is retired.
6. Mr. Don Wallin, PJM, reminded the OC that the materials from the June 25 OC/PC Special Session for Manual 21 Changes are posted on the OC webpage.

Review of Operations

7. **Review of Operational Events**
Mr. Chris Pulong, PJM, reviewed PJM operations since the last OC Meeting.
8. **Review of Operating Metrics**
Ms. Stephanie Monzon, PJM, reviewed the June 2018 PJM operating metrics slides. Metrics included PJM's load forecast error, BAAL performance, transmission / generation outage statistics, and Perfect Dispatch historical performance. PJM will provide more information on the 6/4 synchronized reserve event at a future OC meeting. PJM will also review how the PCLLRW monthly data is presented and consider better ways to present the data.

Endorsements/Approvals

9. **30 Minute Reserve Proposal Update**
Mr. Vince Stefanowicz, PJM, provided an update regarding PJM's 30 minute reserve proposals. The Operating Committee **endorsed** by acclamation the base 30 minute reserve requirement calculation methodology (2018 requirement of 3784 MW) and the methodology for adjustments to the base requirement with 0 objections and 48 abstentions.
10. **Manual 3A Changes**
Ms. Diane Lake, PJM, reviewed the proposed changes to Manual 3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA). The Operating Committee **endorsed** by acclamation the proposal with 0 objections and 0 abstentions.

First Readings

There were no first readings scheduled for this month's meeting.

OC Subcommittee / Task Force Updates

11. System Operations Subcommittee (SOS)

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

12. Data Management Subcommittee (DMS)

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

13. Distributed Energy Resources Subcommittee (DERS)

Mr. Peter Langbein, PJM, provided an update from the most recent DERS meeting.

14. System Restoration Coordinators Subcommittee (SRCS)

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

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

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

Capacity Performance

There were no Capacity Performance updates for this month's meeting.

Tool and Informational Updates

16. Fuel Assurance for Restoration Problem Statement and Issue Charge Update

Mr. Glen Boyle, PJM, provided an update regarding the Problem Statement and Issue Charge regarding fuel assurance for restoration.

17. Twin Branch Area Load Shed Event Review

Mr. Chris Pulong, PJM provided a review of the May 29 Twin Branch area load shed event.

18. Regulation Performance Review

Mr. Eric Endress, PJM, provided an update on PJM's regulation performance. PJM will review regulation performance to include an analysis of shorter duration regulation signal is pegging and present at a future OC meeting.

19. System Resilience

Mr. Dean Manno, PJM, provided an update on PJM's system resilience efforts with regards to PJM Manual 13 and emergency operations. PJM will continue coordination in the areas of EMP, cyber assets and relay settings verification and bring draft manual language to future OC meetings.

19. NERC Lessons Learned

Mr. Donnie Bielak, PJM, provided a review of recently posted NERC Lessons Learned.

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 solicited feedback from the members on Reliability Compliance efforts.

21. Dominion Carolina 54 RAS/SPS Retirement

Mr. Craig Crider, Dominion, presented the retirement of the Carolina 54 RAS/SPS. The RAS is expected to be retired in August 2018.

22. Automated CT Notification (ACN) Project Update

Mr. Aaron Baizman, PJM, provided an update on the Automated CT Notification (ACN) project. Mr. Baizman solicited additional Generation Owners to participate as part of a PJM ACN Pilot.

23. Pricing Interface Update

There were no newly created pricing interfaces.

Action Items

1. PJM will provide more information on the 6/4 synchronized reserve event.
2. PJM will review how the PCLLRW data is presented and consider different ways to present the information.
3. PJM will review regulation performance to include an analysis of shorter duration regulation signal pegging.
4. PJM will continue coordination in the areas of EMP, cyber assets and relay settings verification and bring draft manual language to future OC meetings.

Future Meeting Dates

August 7, 2018	9:00 a.m.	PJM Interconnection - Conference and Training Center
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

Author: Don Wallin

In Attendance (In Person)

Last Name	First Name	Company	Sector
Souder (Chair)	Dave	PJM Interconnection, LLC	Not Applicable
Wallin (Secretary)	Don	PJM Interconnection, LLC	Not Applicable
Benchek	Jim	First Energy Solutions Corporation	Transmission Owner

Braerman	Kenneth	Baltimore Gas & Electric	Transmission Owner
Brodbeck	John	EDP Renewables	Other Supplier
D'Alessandris	Lou	First Energy Solutions Corporation	Transmission Owner
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Greiner	Gary	PSEG Energy Resources and Trading	Other Supplier
Horstmann	John	Dayton Power & Light	Transmission Owner
Hunter	Andrew	Metropolitan Edison	Transmission Owner
Johnson	Carl	Customized Energy Solutions	Not Applicable
Kauffman	Brian	EnerNOC, Inc.	Other Supplier
Kogut	George	New York Power	Other Supplier
Lowe	Connie	Dominion Virginia Power	Not Applicable
Midgley	Sharon	Exelon Business Services	Transmission Owner
O'Connell	Robert	PPGI Fund A/B Development	Generation Owner
Phillips	Rodney	First Energy Solutions	Transmission Owner
Pratzon	Dave	GT Power Group	Not Applicable
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
Abend	Erik	Energy Evolution News	Not Applicable
Ainspan	Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier

Alfayyoumi	Mohammed	Dominion Virginia Power	Not Applicable
Andersen	Jared	S&P Global Platts	Not Applicable
Blackshear	David	Grid Force	Not Applicable
Bolan	Martin	First Energy Solutions Corporation	Transmission Owner
Bonner	Charles	Dominion Virginia Power	Not Applicable
Carmean	Gregory	OPSI	Not Applicable
Carter	Karyn	Consolidated Edison	Transmission Owner
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Crider	Craig	Dominion Virginia Power	Not Applicable
Davis	James	Dominion Energy Marketing, Inc.	Generation Owner
DeGiusto	Vince	UGI Development	Generation Owner
Domian	Christian	Duquesne Light Company	Transmission Owner
Dugan	Chuck	East Kentucky Power Cooperative	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
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
Gear	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
Helms	Joe	Rainbow Energy Marketing	Other Supplier
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Holland	Cynthia	NJ Board of Public Utilities	Not Applicable
Hudis	Gabriella	Gable and Associates	Not Applicable
Janicki	Diane	Boston Energy Trading and Marketing LLC	Generation Owner
Johnston	David	Indiana Utility Regulatory Commission	Not Applicable
Kelley	Ryan	Duke Energy Ohio Inc.	Transmission Owner
Kinser	Cynthia	Tennessee Department of Agriculture	Not Applicable
Krawczyk	Leslie	Reliability First Corporation	Not Applicable
Leasure	Jill	Keystone Projects	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
Rothey	Kristin	American Municipal Power, Inc.	Electric Distributor
Ruck	Edward	North American Energy Corporation	Not Applicable
Runowski	Brian	Commonwealth Edison	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Schneider	Jon	First Energy	Transmission Owner
Skumanich	William	PPL Electric Utilities Corp.	Transmission Owner
Smith	Jacque	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
Turkaly	Joy	Pennsylvania Independent Oil & Gas Association	Not Applicable
White	Doug	North Carolina Electric Cooperative	Electric Distributor
Whitehead	Jeffrey	GT Power Group	Not Applicable

PJM Attendees

Last Name	First Name	Company	Sector
Anders	Dave	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
Burlew	Jim	PJM Interconnection, LLC	Not Applicable
Callaghan	Chris	PJM Interconnection, LLC	Not Applicable

Caven	Augustine	PJM Interconnection, LLC	Not Applicable
Ciabattoni	Joe	PJM Interconnection, LLC	Not Applicable
Davis	Elizabeth	PJM Interconnection, LLC	Not Applicable
Daugherty	Suzanne	PJM Interconnection, LLC	Not Applicable
Endress	Eric	PJM Interconnection, LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Hauske	Tom	PJM Interconnection, LLC	Not Applicable
Herel	Suzanne	PJM Interconnection, LLC	Not Applicable
Hendrzak	Chantal	PJM Interconnection, LLC	Not Applicable
Hsia	Eric	PJM Interconnection, LLC	Not Applicable
Jani	Alpa	PJM Interconnection, LLC	Not Applicable
Keech	Adam	PJM Interconnection, LLC	Not Applicable
Kimmel	David	PJM Interconnection, LLC	Not Applicable
Lake	Diane	PJM Interconnection, LLC	Not Applicable
Langbein	Pete	PJM Interconnection, LLC	Not Applicable
Manno	Dean	PJM Interconnection, LLC	Not Applicable
Monzon	Stephanie	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Pincus	Steve	PJM Interconnection, LLC	Not Applicable
Schmitt	Jeff	PJM Interconnection, LLC	Not Applicable
Schuyler	Ken	PJM Interconnection, LLC	Not Applicable
Stadelmeyer	Rebecca	PJM Interconnection, LLC	Not Applicable
Stefanowicz	Vince	PJM Interconnection, LLC	Not Applicable



Draft Minutes

Tam	Simon	PJM Interconnection, LLC	Not Applicable
Thomas	Jack	PJM Interconnection, LLC	Not Applicable
Ward	Mike	PJM Interconnection, LLC	Not Applicable