

**Operating Committee**  
**PJM Conference & Training Center, Audubon, PA**  
**July 9, 2019**  
**9:00 a.m. – 12:30 p.m. EPT**

## Administration

1. The Operating Committee (OC) Agenda for this meeting was **approved**. Mr. Don Wallin, PJM, notified the OC that the June 27 Non-Retail Behind the Meter Generation Subgroup meeting draft minutes are posted on the July 9 OC meeting website as an information only item. Mr. Wallin also notified the OC that PJM has sent a solicitation letter to targeted Load Serving Entities (LSEs) to identify and report Non-Retail BTMG located in the wholesale area that a LSE serves. LSEs have been requested to complete and submit a Non-Retail BTMG report template to [BTMG@pjm.com](mailto:BTMG@pjm.com) by July 31, 2019. PJM will continue to solicit stakeholder feedback regarding the Non-Retail BTMG report template.

Mr. Dave Souder, PJM, notified the OC that Ms. Darlene Phillips, PJM, would assume the Chair of the OC following the July 9 meeting. Mr. Souder thanked the OC for the opportunity to serve.

2. The Draft Minutes of the June 11, 2019 OC meeting were **approved** as drafted by acclamation with 0 objections and 0 abstentions.
3. Mr. Don Wallin, PJM, reviewed the OC work plan.

## Review of Operations

### 4. Review of Operational Events

Mr. Chris Pilong, PJM, reviewed PJM operations since the last OC Meeting.

### 5. Review of Operating Metrics

Ms. Stephanie Monzon, PJM, reviewed the June 2019 PJM operating metrics slides. Metrics included PJM's load forecast error, BAAL performance, transmission / generation outage statistics, and Perfect Dispatch historical performance.

## Endorsements/Approvals

### 6. Manual 39 Changes

Mr. Daniel Bennett, PJM, reviewed the proposed changes to PJM Manual 39: Nuclear Plant Interface Coordination. The Operating Committee **endorsed** these changes by acclamation with 0 objections and 0 abstentions.

### 7. Manual 13 Changes

Mr. Augustine Caven, PJM, reviewed the proposed changes to PJM Manual 13: Emergency Operations in regards to Resource Limitation Reporting. The Operating Committee **endorsed** these changes by acclamation with 0 objections and 0 abstentions.

## 8. Manual 10 Changes

Mr. David Schweizer, PJM, reviewed the proposed changes to PJM Manual 10: Pre-Scheduling Operations in regards to generator outage reporting which were presented at the May 14 OC meeting. The Operating Committee **endorsed** these changes by acclamation with 0 objections and 0 abstentions.

## First Readings

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

## OC Subcommittee / Task Force Updates

### 9. System Operations Subcommittee (SOS)

Mr. Chris Pulong, PJM, provided a summary of the most recent SOS meeting. Mr. Pulong notified the OC that Ms. Rebecca Carroll, PJM, would assume the Chair role of the SOS beginning July 31.

### 10. Data Management Subcommittee (DMS)

Mr. Andy Ford, PJM, provided a summary of the most recent DMS meeting. Mr. Ford also reviewed proposed changes to the DMS charter which were presented at the May 14 OC meeting. The Operating Committee **endorsed** these changes by acclamation with 0 objections and 0 abstentions.

### 11. Distributed Energy Resources Subcommittee (DERS)

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

### 12. System Restoration Coordinators Subcommittee (SRCS)

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

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

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

## Unit Specific Parameter Updates

### 14. Unit Specific Parameter Updates

There were no Unit Specific Parameter updates for this month's meeting.

## PJM Initiatives/Education Updates

### 15. Fuel Requirements for Black Start Resources Update

Ms. Janell Fabiano, PJM, provided an update regarding the Fuel Requirements for Black Start Resources issue. More information on this initiative can be found at PJM's Issues Tracking page. <https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue={B7F726E1-9F06-414E-8516-4D69B5050AF4}>

## Tool and Informational Updates

### 16. NERC Lessons Learned

There were no NERC lessons learned for this month's meeting.

## 17. Reliability Compliance Update

Mr. Tom Moleski, 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 have been no newly created pricing interfaces.

## Non-Retail Behind the Meter Generation (NRBTMG) Business Rules Issue

### 19. Manual 13 and 14D Changes

Ms. Terri Esterly, PJM, reviewed the proposed changes regarding Non-Retail BTMG manual language for Manual 13: Emergency Operations and Manual 14D: Generator Operational Requirements. The endorsement vote was deferred pending endorsement at the July 31 SOS meeting. Mr. Dave Souder, PJM, notified the OC that the Non-Retail BTMG subgroup activities were complete and that no further meetings would be held prior to the endorsement vote. **The Operating Committee will be asked to endorse the proposed changes at the next OC meeting.**


## Action Items

1. PJM will review Manual 03 language changes regarding stability studies in order to align with proposed Manual 10 language changes.
2. Manual 10 endorsement vote will be deferred until the Modeling Units with Stability Limitations Problem Statement and Issue Charge is addressed by the MIC.

## Information Only

1. The Non-Retail Behind the Meter Generation Subgroup June 27 meeting draft minutes are posted on the July 9 OC meeting website.
2. PJM has sent a solicitation letter to targeted Load Serving Entities (LSEs) to identify and report Non-Retail BTMG located in the wholesale area that a LSE serves. LSEs have been requested to complete and submit a Non-Retail BTMG report template to [BTMG@pjm.com](mailto:BTMG@pjm.com) by July 31, 2019. PJM will continue to solicit feedback regarding the Non-Retail BTMG report template.

## Previous OC Education

Network Model Alignment Initiative	2/5/2019	 20190205-item-21-network-model-alignm
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Forecasting Education	4/9/2019	 20190409-item-19-oc-forecast-education.pdf
Emergency Procedures Overview	4/9/2019	 20190409-item-23b-emergency-procedure.pdf
Behind the Meter Generation Settlement History	4/9/2019	 20190409-item-23b-settlement-agreement.pdf
Improving Load Forecast with BTM Solar Forecast	5/14/2019	<a href="https://www.pjm.com/-/media/committees-groups/committees/oc/20190514/20190514-item-20-improving-load-forecast-with-btm-solar-forecast.ashx">https://www.pjm.com/-/media/committees-groups/committees/oc/20190514/20190514-item-20-improving-load-forecast-with-btm-solar-forecast.ashx</a>
Existing Non-Retail Behind the Meter Generation Business Rules	5/14/2019	 20190514-item-27-existing-nrbtmg-business-rules.pdf
Non-Wholesale Distributed Energy Resources Data Collection	5/14/2019	 20190514-item-27a-order-data-collection.pdf
Process Used to Estimate Non-Retail Behind the Meter Generation in PJM	5/14/2019	 20190514-item-27b-nrbtmg-estimation-process.pdf
Non-Retail Behind the Meter Generation Settlement Agreement – Determination of the Threshold and Cap	5/14/2019	 20190514-item-27c-threshold-and-cap-for-settlement-agreement.pdf
FERC 841 Education	6/11/2019	<a href="https://www.pjm.com/-/media/committees-groups/committees/oc/20190611/20190611-item-06-ferc-order-841-education.ashx">https://www.pjm.com/-/media/committees-groups/committees/oc/20190611/20190611-item-06-ferc-order-841-education.ashx</a>

Transient Stability Analysis and Modeling Education	6/11/2014	<a href="https://www.pjm.com/-/media/committees-groups/committees/oc/20190611/20190611-item-17-stability-limit-process.ashx">https://www.pjm.com/-/media/committees-groups/committees/oc/20190611/20190611-item-17-stability-limit-process.ashx</a>
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## Future Meeting Dates

August 6, 2019	9:00 a.m.	PJM Interconnection - Conference and Training Center
September 10, 2019	9:00 a.m.	PJM Interconnection - Conference and Training Center
October 15, 2019	9:00 a.m.	PJM Interconnection - Conference and Training Center
November 12, 2019	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
Brodbeck	John	EDP Renewables North America LLC	Other Supplier
D'Alessandris	Lou	FirstEnergy Solutions Corp.	Transmission Owner
Foladare	Kenneth	Tangibl	Not Applicable
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Johnson	Carl	Customized Energy Solutions Ltd.	Not Applicable
Kogut	George	New York Power Authority	Other Supplier
Lieberman	Steven	American Municipal Power, Inc.	Electric Distributor
Lowe	Connie	Dominion Virginia Power	Not Applicable
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Rumsey	Amanda	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Scarpignato	David	Calpine Energy Services, LP.	Generation Owner
Sturgeon	John	Duke Energy Carolinas, LLC	Other Supplier
Sweeney	Rory	GT Power Group	Not Applicable

Trayers	Barry	Citigroup Energy, Inc.	Other Supplier
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## In Attendance (Via Conference Call)

Last Name	First Name	Company	Sector
Ainspan	Malcolm	Energy Curtailment Specialists, Inc.	Not Applicable
Anderson	Jared	SPGlobal Inc.	Not Applicable
Battaglino	Alicia	Exelon Generation Co., LLC	Generation Owner
Bickerstaff	Dean	Hartree Partners, LP	Not Applicable
Brodbeck	John	EDP Renewables North America, LLC	Other Supplier
Capra	Carlo	ITC Interconnection LLC	Other Supplier
Chandler	Kent	Office of the Attorney General, Kentucky	Not Applicable
Chintapalli	Raj	BP Energy Company	Other Supplier
Cocco	Michael	Old Dominion Electric Cooperative	Electric Distributor
Crystle	Gil	UGI Development Company	Transmission Owner
Dasher	Brett	The Energy Authority. Inc.	Other Supplier
Davis	Jim	Dominion Virginia Power	Transmission Owner
DeGiusto	Vince	UGI Development Company	Generation Owner
DiNicola	Laura	PPL Electric Utilities Corp.	Transmission Owner
Dolan	Ryan	American Municipal Power, Inc.	Electric Distributor
Durinsky	Mike	FirstEnergy Solutions Corp.	Transmission Owner
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Garza	Mark	Jersey Central Power & Light Company	Transmission Owner
Gates	Terry	Appalachian Power Company	Transmission Owner
Gebolys	Debbie	The Public Utilities Commission of Ohio	Not Applicable
George	Brian	Environmental Defense Fund	Not Applicable
Gilani	Rehan	ConEdison Energy, Inc.	Other Supplier



Grear	Mark	Exelon Generation Co., LLC	Generation Owner
Guntle	Vince	UGI Development Company	Generation Owner
Hammack	Matthew	PPL Web	Transmission Owner
Hanebuth	Michele	Consolidated Edison Company of NY. Inc.	Transmission Owner
Hanser	Erik	Michigan Public Service Commission	Not Applicable
Heisey	Bradley	Wolf Hills Energy, LLC	Generation Owner
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Hooker	Marquette	Dominion Virginia Power	Not Applicable
Horning	Lynn Marie	Customized Energy Solutions Ltd.	Not Applicable
Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hunter	Andy	FirstEnergy Solutions Corp.	Transmission Owner
Janicki	Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
Keilholtz	Kenneth	GenOn Energy Management, LLC	Generation Owner
Kelley	Ryan	Duke Energy Ohio, Inc.	Transmission Owner
Kelly	Stephen	Brookfield Energy Marketing LP	Other Supplier
Krawczyk	Leslie	Reliability First	Not Applicable
Leisure	Jill	Keystone Projects	Not Applicable
Libbos	Robin	FirstEnergy Solutions Corp.	Transmission Owner
Mabry	David	McNees Wallace & Nurick LLC	Not Applicable
Markiewicz	Cindy	FirstEnergy Solutions Corp.	Transmission Owner
Merten	Laura	Holocene Clean Energy	Not Applicable
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
O'Connell	Robert	PPGI Fund A/B Development, LLC	Generation Owner
O'Leary	Chris	Public Service Electric and Gas Inc.	Transmission Owner

Ondayko	Brock	Appalachian Power Company	Transmission Owner
Pakela	Gregory	DTE Energy Trading, Inc.	Other Supplier
Marji	Philips	Direct Energy Business, LLC.	Other Supplier
Poulos	Greg	CAPS	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.	Not Applicable
Sauriol	Dennis	AEP Ohio Transmission Company, Inc.	Transmission Owner
Sells	Scott	East Kentucky Power Cooperative Inc.	Transmission Owner
Shealy	Erin	GDS Associates, Inc.	Not Applicable
Smith	Christen	RTO Insider	Not Applicable
Squibb	William	Ohio Valley Electric Corporation	Transmission Owner
Sturgeon	John	Duke Energy Carolinas LLC.	Other Supplier
Sullivan	James	Neptune Regional Transmission System, LLC.	Transmission Owner
Vayda	Brian	Borough of Park Ridge	Electric Distributor
Whitehead	Jeffrey	GT Power Group	Not Applicable
Wisersky	Megan	Madison Gas and Electric Company	Other Supplier
Zhou	Ming	PSEG Energy Resources and Trade LLC	Transmission Owner

## PJM Attendees

Last Name	First Name	Company	Sector
Anders	David	PJM Interconnection, LLC	Not Applicable
Bennett	Daniel	PJM Interconnection, LLC	Not Applicable
Boyle	Glen	PJM Interconnection, LLC	Not Applicable
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Bryson	Mike	PJM Interconnection, LLC	Not Applicable
Carroll	Rebecca	PJM Interconnection, LLC	Not Applicable
Caven	Augustine	PJM Interconnection, LLC	Not Applicable



Ciabattoni	Joseph	PJM Interconnection, LLC	Not Applicable
Croop	Danielle	PJM Interconnection, LLC	Not Applicable
Davis	Elizabeth	PJM Interconnection, LLC	Not Applicable
Downs	Jere	PJM Interconnection, LLC	Not Applicable
Esterly	Theresa	PJM Interconnection, LLC	Not Applicable
Fabiano	Janell	PJM Interconnection, LLC	Not Applicable
Greening	Michele	PJM Interconnection, LLC	Not Applicable
Jani	Alpa	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
Mooney	Molly	PJM Interconnection, LLC	Not Applicable
Olaleye	Michael	PJM Interconnection, LLC	Not Applicable
Phillips	Darlene	PJM Interconnection, LLC	Not Applicable
Pilong	Chris	PJM Interconnection, LLC	Not Applicable
Pincus	Steve	PJM Interconnection, LLC	Not Applicable
Schweizer	David	PJM Interconnection, LLC	Not Applicable
Stone	Andy	PJM Interconnection, LLC	Not Applicable
Tam	Simon	PJM Interconnection, LLC	Not Applicable
Thomas	Henry	PJM Interconnection, LLC	Not Applicable
Velasco	Cheryl Mae	PJM Interconnection, LLC	Not Applicable
Williams	Stan	PJM Interconnection, LLC	Not Applicable

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)  
 Visit [learn.pjm.com](http://learn.pjm.com), an easy-to-understand resource about the power industry and PJM's role.