

**System Operations Subcommittee – Generation and Transmission**  
**PJM Conference and Training Center**  
**July 05, 2018**  
**09:00am – 11:00 am (EDT)**

## SOS Members Present

LAST NAME	FIRST NAME	COMPANY	
Zhang (Secretary)	Michael	PJM Interconnection, LLC	In-Person
Whitehead	Jeffrey	GT Power Group	In-Person
Baker	Jeff	Duke Energy Ohio, Inc.	Teleconference
Balascak	Andrew	PPL Electric Utilities Corp. dba PPL Utilities	Teleconference
Barmer	Mike	Dominion Virginia Power	Teleconference
Brodbeck	John	EDPR	Teleconference
Bryant	Eric	FirstEnergy Solutions Corp.	Teleconference
Buhler	Thomas	Rockland Electric Company	Teleconference
Clemans	Steve	AES	Teleconference
Crider	Craig	Virginia Electric & Power Company	Teleconference
Davis	James	Dominion Energy Marketing, Inc.	Teleconference
Dolan	Ryan	American Municipal Power, Inc.	Teleconference
Edwards	Stephen	Dominion Virginia Power	Teleconference
Fusek	David	Appalachian Power Company	Teleconference
Francis	Andre	Southern Maryland Electric Cooperative	Teleconference
Garavaglia	John	Commonwealth Edison Company	Teleconference
Grear	Mark	Exelon Generation Co., LLC	Teleconference
Johnston	Todd	Appalachian Power Company	Teleconference
Keilholtz	Kenny	GenOn Energy Management, LLC	Teleconference
Kern	Stephan	American Transmission Systems, Inc	Teleconference
Libbos	Robin	FirstEnergy Solutions Corp.	Teleconference
Lloyd	David	UGI Utilities, Inc.	Teleconference
Lowe	Connie	Dominion Virginia Power	Teleconference
Miller	Jermel	Baltimore Gas and Electric	Teleconference
O’Leary	Christopher	PSEG Energy Resources and Trade LLC	Teleconference
Runowski	Brian	Commonwealth Edison Company	Teleconference
Sells	Scott	East Kentucky Power Cooperative, Inc.	Teleconference
Stine	Randy	Metropolitan Edison Company	Teleconference
Shaffer	Chris	Appalachian Power Company	Teleconference
Smith	Jacque	Duquesne Light Company	Teleconference
Stine	Randy	Metropolitan Edison Company	Teleconference

Sullivan	James	Neptune Regional Transmission System, LLC	Teleconference
White	Doug	North Carolina Electric Membership Corporation	Teleconference

## Others Present

Bielak	Donnie	PJM Interconnection, LLC	In-Person
Baizman	Aaron	PJM Interconnection, LLC	In-Person
Davis	Elizabeth	PJM Interconnection, LLC	In-Person
Hilderbrand	Rebecca	PJM Interconnection, LLC	In-Person
Hislop	David	PJM Interconnection, LLC	In-Person
Le	Vy	PJM Interconnection, LLC	In-Person
McGlynn	Paul	PJM Interconnection, LLC	In-Person
Walker	Preston	PJM Interconnection, LLC	In-Person
Deloach	Ronald	PJM Interconnection, LLC	In-Person
Curley	Maureen	PJM Interconnection, LLC	In-Person
Depasquale	Bill	PJM Interconnection, LLC	In-Person
Tuna	Erkan	PJM Interconnection, LLC	In-Person
Tam	Simon	PJM Interconnection, LLC	In-Person
Manno	Dean	PJM Interconnection, LLC	In-Person
Herel	Suzanne	RTO Insider	Teleconference

## Administration

1. The Agenda for this meeting was approved.
2. Minutes for the June 01, 2018 Joint SOS Meeting were approved.

## Review of Operations

3. Mr. Bielak provided an update of System Operations in June and multiple hot weather alerts issued throughout the month and three spinning events. The year to date peak was achieved on June 18<sup>th</sup>.
4. Mr. Bielak reviewed the findings on the AEP load shed event. An in-depth timeline was provided with details on planned and unplanned outages in the area. No charges or credits came from the PAI as there was no generation mitigation on the load shed. A total of 21MWs were shed until outaged facilities were restored. Recommendations included improving relay settings and outage analysis procedures during emergency procedures.

A question was raised regarding the planned outages. Mr. Bielak clarified that they were not emergency and related to supplemental upgrades.

## eDART and DTS Updates

5. eDART User Groups: Ms. Le reviewed changes in the most recent 6/27 eDART upgrade and the timeline for upcoming enhancements for Voltage Schedules and Voltage Limits. The eDART refresh is currently on-going.

6. Dispatcher Training Subcommittee (DTS): Ms. Curley informed that the JTA survey went out for the Generation Exam. The Transmission Owner Operator Exam is expected to launch August 1 with a blackout period in October to validate results. There will be no instant scoring during the initial two months of the exam.

## System Operator Training and Certification

7. Ms. Curley provided the update. All transmission companies are compliant. Four generation companies, one CSP, and one small generation company are non-compliant.

## Regional Standards, NAESB, and Compliance Update

8. Mr. Walker provided an update on NERC, NAESB, and RFC & SERC Regional Standards.
9. No member issues regarding NERC/RFC reported.

## NERC Lessons Learned

10. Mr. Bielak discussed three NERC Lessons Learned regarding loss of multiple SCADA RTUs, external data causing State Estimator to fail, and impacts to Real-Time situational awareness by back office tools. Causes and recommendations were reviewed for all three.

## PJM Manual Updates

11. Mr. Deloach provided a second read on changes to Manual 3A. The changes were endorsed by the SOS Joint.
12. Mr. Tuna provided a second read on changes Manual 1 revision 39. A concern was raised during the endorsement motion regarding specific language in the manual. The changes were not endorsed by the SOS Joint and PJM is looking to address those concerns.

## Automatic CT Notification

13. Mr. Baizman discussed the on-going efforts to automate CT call-on and call-offs. PJM is looking for Generation Owners to provide feedback and participate in the pilot.

## Resiliency Update

14. Mr. Manno provided an update on the resiliency efforts and specific changes in Manual 13. Additional details to controlling actions and triggers will be added to address specific events identified by PJM and members.

## Certificate Upgrade to Tools

15. Ms. Le informed of an upcoming PJM change to security certificates used to connect to PJM. This would impact tools like Markets Gateway and eDART. An update will need to be made by a cut-off date or the tools will not be accessible. Communications have been sent out through the Tech Change Forum. The change will be made in the Sandbox environment the week of July 10<sup>th</sup>.

### 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:



# Meeting Minutes

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. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings.