

System Operations Subcommittee – Generation and Transmission
PJM Conference and Training Center
November 24, 2015,
09:00am – 10:00 am (EDT)

Transmission Members Present

LAST NAME	FIRST NAME	COMPANY	
Pilong (Chair)	Chris	PJM Interconnection	In-Person
Yeddanapudi (Secretary)	Sree	PJM Interconnection	In-Person
Benchek	Jim	FirstEnergy Solutions Corp.	Teleconference
Dinsmore	Frank	Appalachian Power Company	Teleconference
Felix	Bob	Duquesne Light Company	Teleconference
Gates	Terry	Appalachian Power Company	Teleconference
Gibellino	Dana	Appalachian Power Company	Teleconference
Guarneri	Matt	Baltimore Gas and Electric Company	Teleconference
Johnston	Todd	Appalachian Power Company	Teleconference
Klohonatz	Mark	FirstEnergy Solutions Corp	Teleconference
Lloyd	David	UGI Utilities, Inc.	Teleconference
McKinney	Greg	East Kentucky Power Cooperative, Inc.	Teleconference
Mitchell	Mike	Rockland Electric Company	Teleconference
Ondayko	Brock	Appalachian Power Company	Teleconference
Stine	Randy	Metropolitan Edison Company	Teleconference
Wagner	Daniel	Appalachian Power Company	Teleconference
Wharton	Ron	Public Service Electric and Gas Company	Teleconference
Whittaker	Greg	East Kentucky Power Cooperative, Inc.	Teleconference

Generation Members Present

Bonner (ES)	Charles	Dominion Virginia Power	Teleconference
Grear	Mark	Exelon Generation Co., LLC	Teleconference
Hoatson	Tom	Riverside Generating, LLC	Teleconference
Lowe	Connie	Dominion Energy Marketing, Inc.	Teleconference
Skumanich	William	Talen Energy Marketing, LLC	Teleconference

Others Present

Boyle	Glen	PJM Interconnection	In-Person
Burlew	Jim	PJM Interconnection	In-Person
Ciabattoni	Joe	PJM Interconnection	In-Person

D'Antonio	Phil	PJM Interconnection	In-Person
Ford	Andy	PJM Interconnection	In-Person
Hoke	Mike	PJM Interconnection	Teleconference
Ike-Egbuonu	Chidi	PJM Interconnection	Teleconference
Kimmel	Dave	PJM Interconnection	In-Person
Kuras	Mark	PJM Interconnection	In-Person
Mulhern	Joe	PJM Interconnection	In-Person
Schweizer	David	PJM Interconnection	In-Person
Scott	Nicole	PJM Interconnection	In-Person
Semrau	Keith	Cleveland Public Power	Teleconference
Tam	Simon	PJM Interconnection	In-Person

Administration

1. The Agenda for this meeting was approved.
2. The Draft Minutes of the October 28, 2015 Joint meeting were approved.

Review of Operations

3. Mr. Pilong provided an update of System Operations. For the month of October: CPS1: 156.7%, BAAL: 99.8%, (CPS2): (87.8%). There were no DCS reportable events in October.

For the partial month of November: 11 High system voltage event, 2 Shared Reserves events, 1 Spinning Events, 1 Minimum Gen Alert Event

Mr. Pilong provided details on the Oct 28, 2015 DOD Blimp event. A radar blimp broke free and caused multiple line trips in the PPL territory around Susquehanna- Montour area along with service interruptions to about 35,000 distribution customers.

Member Operational Issues: None

Working Group and Task Force Updates

4. eDART User Groups –Ms. Ike-Egbuonu provided an update on eDART changes and enhancements scheduled for the next quarterly release. These include: Inclusion of Reactive Devices on Transmission Outage Tickets, Network Model Functionality to Provide Station Longitude/Latitude Information and M10/Capacity Performance related eDART Changes and Transmission Outage and TERM Ticket Linkage. The eDART release is slated for December 09, 2015. eDART is scheduled to be unavailable from around 7 pm of December 09, 2015 and will be available for users around 2 am December 10,2015.
5. Dispatcher Training Subcommittee (DTS) – Mr. Hoke provided reminders on upcoming training from DTS. System Restoration Workshop is scheduled for December 2, 3 at PJM. Market Optimization Workshop is

scheduled for December 1-3, 2015 at the Crowne Plaza, King of Prussia. Train the Trainer is scheduled for December 8, 9 at PJM.

He informed that Continuing Training Requirement checks will be made at the end of December 2015. Personnel training requirements are listed below.

- Transmission Owner - 32 EOP hours by end of year
- Generation Owner - 54 hours over rolling 3 year period
- Small Gen - 24 hours over rolling 3 year period
- DR / ES - annual refresher training

System Operator Training and Certification

6. Mr. Hoke provided the results of certification and training statuses. Transmission – All companies are in compliance with the Training & Certification requirements. Generation- 5 companies are non-compliant; 2 with mitigation plans in place for Training. 10 are companies non-compliant; 5 with mitigation plans in place for Certification. Small Generation –2 companies are non-compliant; 1 with mitigation plans in place. 4 companies non-compliant; 0 with mitigation plans in place. PJM is working with all companies to develop mitigation plans for non-compliance.

Regional Standards, NAESB, and Compliance Update

7. Mr. Kuras provided an update on NERC, SERC, RFC, and NAESB Regional Standards.

- Standards currently under development by the NERC SDT:
 - BAL-005-0.2b, BAL-006-2, FAC-001-1: Project 2010-14.2.1: Phase 2 of Balancing Authority Reliability-based Controls (BARC 2) has an additional ballot period between 12/31/15 – 1/11/16 and a comment period thru 1/11/16.
 - TPL-001-5 SAR: Project 2015-10 Single Points of Failure TPL-001 has a comment period thru 12/17/15
- Standards subject to future enforcement thru July 1, 2017.
 - Effective **January 1, 2016**, the following standards are being enforced: FAC-001-2 - Facility Interconnection Requirements, FAC-002-2 - Facility Interconnection Studies, NUC-001-3 - Nuclear Plant Interface Coordination, PRC-005-4 – Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance
 - Standards with future enforcement dates of the list can be found in the presentation.

8. The SOS addressed any ongoing Member issues regarding NERC/RFC Audits. None identified.

Manual Updates

9. Mr. Schweizer provided a second read of proposed changes to Manual 10: Pre-Scheduling Operations (Revision 33). The changes are being proposed as part of the 2015 review of the manual. Changes included revisions to existing language in section 2 for further clarity on generation outage reporting. Additional administrative changes have been proposed to section 5. No further changes were made the proposed revisions.
10. Mr. Kimmel provided a second read of proposed changes to Manual 14D: Generator Operational Requirements (Revision 37) regarding Reactive Testing Requirements. The changes are being proposed as part of the 2015 review of the manual. The revisions include clarifications and changes to the generator reactive capability reporting and testing requirements.
11. Mr. Kimmel further reviewed changes to Manual 14D: Generator Operational Requirements (Revision 37), Attachment L, "Wind Farm Communications Model" proposed to be changed to "Joint Owned Resource Model". The expanded applicability which was earlier applicable only to wind farms will also apply to Joint Owned Resources. This communications model applicability is being expanded based on a Cold Weather Report action item to develop an operating procedure for handling Joint Owned Units. No further changes were made the proposed revisions.
12. Mr. Mulhern provided a second read of the changes proposed to Manual M39: Nuclear Plant Interface Coordination (Revision 12). The changes are being made as part of a 3-year review of the manual. In addition to administrative revisions to be consistent with NUC-001-3 standard, changes are being proposed to section 2.6- System Restoration and Appendix A. No further changes were made the proposed revisions.
13. Mr. Boyle provided a second read of proposed changes to Manual 40: Training and Certification Requirements (Revision 17). The changes proposed to the manual are based on the solution developed on the issue charge regarding certification/training non-compliance. Proposed changes included revisions to section 3.3 to include member expectations for compliance for training and certification requirements along with a flow chart of the compliance monitoring process. Also incorporated is language to remove operators/dispatchers from shift responsibilities if they are non-compliant with the applicable requirements listed in the manual. No further changes were made the proposed revisions.
14. Mr. Smolanitsky provided a first read of changes proposed to Manual M28: Operations Planning (Revision 9). Minor changes are being proposed as part of an annual review of the manual. These changes will be reviewed at the SOS December meeting.

ComEd Interface Definition Change

15. Ms. Jayachandran reviewed a proposed change in the ComEd Interface Definition used in the PJM Transfer Limit Calculator. The current interface definition has been in effect since June 2013 and comprises all ComEd tie-lines. The new interface "CE-EAST" effective 03/01/2016 will only include six EHV transmission ties on the eastern portion of the ComEd transmission zone. Manual updates to M03 and M37 will be made accordingly.

NERC Lessons Learned

16. Mr. D'Antonio informed the SOS about a recent NERC lessons learned posting and recommended Transmission Owners to review the document. The posting titled: "Loss of EMS Due to RTU LAN and UPS Failure" can be

found at: <http://www.nerc.com/pa/rm/ea/Lessons%20Learned%20Document%20Library/Forms/AllItems.aspx>
under the Grouping: Lessons Learned 2015.

Cold Weather Exercise Update

17. Mr. Schweizer provided an update on the Cold Weather Testing. PJM identified the winter exercise eligible units and provided the lists to GO representatives. PJM will issue test schedules by Wednesday, November 25th. The Winter Checklist Acknowledgement in eDART is due December 15th.

Future Agenda Items

Review of Communication protocols per COM-002-4 Standard (Sept/Oct 2016) – Glen Boyle

Synchrophasors – how will PJM be using them in 2015 – Dave Hislop

Reactive Curve Verification – recurring

Generator semi-annual review (October/April)

TO semi-annual review (November/May)

Generator Performance Monitor Update

Drill Dates

November 4, 2015	PS, Rockland Fall Restoration Drill
November 10, 2015	Winter Emergency Procedures Drill (Back-up: 11/17/15)
February 23-24, 2016	2016 Spring RTO restoration drill

Future Meeting Dates

November 24, 2015	9:00 AM	PJM Conference & Training Center
December 22, 2015	9:00 AM	PJM Conference & Training Center
January 27, 2016	9:00 AM	PJM Conference & Training Center
February 24, 2016	9:00 AM	PJM Conference & Training Center
March 30, 2016	9:00 AM	PJM Conference & Training Center

Author: Sree Yeddanapudi

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:

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.

On the Phone Dial



Mute / Unmute