

System Operations Subcommittee – Generation and Transmission
PJM Conference and Training Center
July 29, 2015
09:00am – 11:00am (EDT)

Transmission Members Present

LAST NAME	FIRST NAME	COMPANY	
Pilong (Chair)	Chris	PJM Interconnection	In-Person
Scott (Secretary)	Nicole	PJM Interconnection	In-Person
Campbell	Gregory	Commonwealth Edison Company	Teleconference
Gibellino	Dana	Appalachian Power Company	Teleconference
Guarneri	Matt	Baltimore Gas & Electric	Teleconference
Hunt	Randy	Dominion Virginia Power	Teleconference
Knapp	George	Duke Energy Ohio	Teleconference
Lloyd	Dave	UGI Utilities, Inc	Teleconference
Lowe	Connie	Dominion Virginia Power	Teleconference
Lumbrazo	Laura	Rockland Electric Company	Teleconference
Sauriol	Dennis	AEP Ohio Transmission Company	Teleconference
Schloendorn	Ron	PECO	Teleconference
Skumanich	Bill	PPL Electric Utilities Corp	Teleconference
Stack	James	Duquesne Light Company	Teleconference
Stine	Randy	Metropolitan Edison Company	Teleconference
Sullivan	James	Neptune Regional Transmission System	Teleconference
Wharton	Ron	Public Service Electric and Gas Company	Teleconference

Generation Members Present

Ayres	Rachel	Exelon Generation Company	Teleconference
Battaglino	Alicia	Exelon Generation Company	Teleconference
Bryant	Eric	FirstEnergy Solutions Corporation	Teleconference
Gates	Terry	Appalachian Power Company	Teleconference
Grear	Mark	Exelon Generation Co.	Teleconference
Hastings	David	Consultant – Supplier	Teleconference
Hoatson	Tom	Riverside Generating	Teleconference
James	Denise	Dominion Energy Marketing	Teleconference
Johnston	Todd	Appalachian Power Company	Teleconference
Keilholtz	Kenny	GenOn Energy Management	Teleconference
Libbos	Robin	Allegheny Power	Teleconference
McKinney	Greg	East Kentucky Power Cooperative	Teleconference
O’Leary	Chris	PSEG Energy Resources & Trade	Teleconference

Pleiss	Gary	Jersey Central Power & Light company	Teleconference
	Scarp	Calpine Energy Services	In-Person
Schmidt	Robert	Commonwealth Chesapeake Company	Teleconference
Thompson	Bill	Appalachian Power Company	Teleconference
Vicini	Dave	PPL EnergyPlus	Teleconference
Whittaker	Greg	East Kentucky Power Cooperative	Teleconference

Others Present

Caven	Augustine	PJM Interconnection	In-Person
D'Antonio	Phil	PJM Interconnection	In-Person
Hendrzak	Chantal	PJM Interconnection	In-Person
Hislop	David	PJM Interconnection	In-Person
Ike-Egbuonu	Chidi	PJM Interconnection	In-Person
Kogut	George	New York Power Authority	In-Person
Kuras	Mark	PJM Interconnection	In-Person
Lee	Ray	PJM Interconnection	In-Person
Mulhern	Joe	PJM Interconnection	In-Person
Souder	Dave	PJM Interconnection	In-Person
Tam	Simon	PJM Interconnection	In-Person
Wallin	Don	PJM Interconnection	In-Person

Administration

1. The Agenda for this meeting was approved.
2. The Draft Minutes of the June 24th, 2015 Joint meeting were approved.

Review of Operations

3. Mr. Piling provided an update of System Operations. For June, the CPS1 was 150.4%, CPS2 was 85.3%, BAAL was 99.7%, and DCS was 100%. For the partial month of July:

2 Hot Weather Alerts

3 High system voltage events

2 Shared Reserves events, 0 Spinning Events, and 9 PCLLRWs

1 Minimum Gen Advisory Event

Member Operational Issues: None

Mr. Pilog provided some additional information on the current hot weather across the system. No additional emergency procedures (beyond a hot weather alert) were anticipated.

Working Group and Task Force Updates

4. eDART User Groups – Ms. Ike-Egbuonu provided an update on eDART changes and enhancements. The next eDART release is scheduled for **9/16/15**. It will include the TOA-AC NDA signoff requirement for transmission users. There will be a 30 day grace period after the release before signoff becomes mandatory. Training will be provided. This release also includes transmission ticket linkage, network model notification, company system impacts report, TERM reports of expiring temporary tickets and unrated facilities, and inclusion of external outages in the conflict identifier tool. There was also mention of changes for capacity performance (that will be documented in M-10) that are coming in eDART.
5. Dispatcher Training Subcommittee (DTS) – Ms. Scott gave an update on behalf of Mr. Hoke. Due to the papal visit and related Valley Forge family day, there is a change in training dates for 'Fundamentals of Transmission Operations' (FOTO) at PJM in September. The new dates are: **Week 1 - 9/21 thru 9/24; Week 2 – 9/29 – 10/1**. All currently registered participants have been notified.

System Operator Training and Certification

6. Ms. Scott provided the results of certification and training statuses on behalf of Mr. Hoke. Generation: 9 companies were non-compliant for certification, 3 have a mitigation plan in place; 3 companies were non-compliant for training, 2 have a mitigation plan in place. Small Generation: 4 companies were non-compliant for both certification and training and requirements, 1 of those has a mitigation plan in place. Transmission: All were compliant for certification and training. For CSP's: 5 companies were non-compliant, 1 of those companies has a mitigation plan in place. PJM is working with all companies to develop mitigation plans.

Regional Standards, NAESB, and Compliance Update

7. Mr. Kuras provided an update on NERC, SERC, RFC, and NAESB Regional Standards. BAL-002-2: Project 2010-14.1 Phase 1 of Balancing Authority Reliability-based Controls: Reserves has a comment period thru 8/20/15 and a ballot period from 8/11/15 – 8/20/15. SAR Project 2009-02 Real-Time Reliability Monitoring and Analysis Capabilities has a comment period thru 8/17/15. This project was initiated in response to work done by the NERC Operating Committee's Real-Time Tools Best Practices task force. He also reviewed the standards subject to future enforcement thru July 1, 2017. As of **October 1, 2015**, the following standards are being enforced: CIP-014-1: Physical Security, COM-001-2: Communications, and PRC-006-2: Automatic Underfrequency Load Shedding. The remainder of the list can be found in the presentation.
8. Mr. Pilog provided more information on the BAL-002-2 standard which is up for comment. A drafting team has been working on this for a while and PJM has had several comments. Ballot pools will be forming thru **8/5/15**. The standard has evolved to include more than just loss of generation; however, PJM still has concerns. Any members looking to join the ballot pools are encouraged to do so.
9. The SOS addressed any ongoing Member issues regarding NERC/RFC Audits. None identified.

Manual Updates

10. Mr. D'Antonio reviewed changes to M-37: Reliability Coordination. Changes included more detail around PJM's Enterprise Change Management Standard which encompasses the Change Control Review Board (CCRB); updates to the SOL definition and some IROL tables and definitions; clarification to SOL limit violations reporting; and some updated nomenclature. It was also noted that more changes related to TLR and SOL methodology will be coming for this manual this fall. This was the first read for this manual review.
11. Mr. Lee reviewed changes to M-10: Prescheduling Operations. Changes included added notes for planned and maintenance outages that refer to the EL15-29-000 filing associated with Capacity Performance. There was also a note added that was NOT related to EL15-29-000 for Maintenance outage rules and regulations that was a result of a business rule clarification presented at the 4/7/15 OC meeting. This was the first read for this manual review.

GridEx Iii Exercise Update

12. Mr. Wallin provided information on the upcoming GridEx III Exercise. The exercise is scheduled for **11/18/15 – 11/19/15**. It is a voluntary exercise in which any NERC registered entity can participate. The exercise is also free from any compliance risk. A master scenario will be created in collaboration with security subject matter experts in the industry. There will also be an executive tabletop exercise on the last day. It was noted that **8/15/15** is the last day to indicate interest in participating. Meetings are already underway for participants. For registered companies using a simulator, the date and times for basecase will be **8/19/15 @ 0800**. There will be CEH opportunities for participating in this exercise. Specifics are still being worked out.

New IRC Status Update

13. Mr. Piong provided an update on the implementation status of the new IRC. Testing is going well for the most part. Tests are typically done on Tuesdays at 1500. Some changes to the overview display are coming for clarity. Some small discrepancies have been identified with calculations on both PJM and the members' sides. Some members are still not responding, but some systems are still getting updated. The tool is still on target to become the official tool on **9/1/15**. Any comments or feedback can still be sent to IRC_help@pjm.com. There was a question regarding a request to exclude some units which have no results. This is not being done at this point in an effort to maintain accuracy, but will still be considered.

Future Agenda Items (0:00)

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

February 24-25, 2015

May 12, 2015

November 10, 2015

Spring RTO Restoration Drill

Summer Emergency Procedures Drill (Back-up date: 5/19/2015)

Winter Emergency Procedures Drill (Back-up date: 11/17/2015)

Future Meeting Dates

July 29, 2015	9:00 AM	PJM Conference & Training Center
August 26, 2015	9:00 AM	PJM Conference & Training Center
September 30, 2015	9:00 AM	PJM Conference & Training Center
October 28, 2015	9:00 AM	PJM Conference & Training Center
November 24, 2015	9:00 AM	PJM Conference & Training Center
December 22, 2015	9:00 AM	PJM Conference & Training Center

Author: Nicole Scott

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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



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