

Reliability Standards and Compliance Subcommittee
WebEx and Meeting
Thursday, February 15, 2018
10:00 am to 12:00 pm EPT, Valley Forge, PA

1) Administration

a) Call to Order (Mr. Moleski)

Subcommittee Members:

Mark Holman, Chair	Manager, Reliability Compliance Dept..
Thomas Moleski, Secretary	Sr. Compliance Specialist, Reliability Compliance Dept.
Syed Ahmad	The Federal Energy Regulatory Commission
Scott Berry	Indiana Municipal Power Agency
David Blackshear	Gridforce Energy Management, LLC
Thomas Buhler	Rockland Electric Company
Ann Ivanc Carey	FirstEnergy Solutions Corp.
Sean Cavote*	Public Service Electric & Gas Company
Frank Cumpton	Baltimore Gas and Electric Company
Kinser Cynthia	
Ben Engelby	Aces Power
Claudine Fritz*	Exelon Business Services Company, LLC
David Fusek	Appalachian Power Company
Rajesh Geevarghese	Exelon Business Services Company, LLC
Marlene George	UGI Utilities, Inc.
Amanda Graybill	American Transmission Systems, Inc.
Phil Hoffer	American Electric Power
Art Iler	American Municipal Power, Inc.
Doug Jerzycke	Exelon Generation Co., LLC
Mark Klohonatz	FirstEnergy Solutions Corp.
Michelle Longo	PPL Electric Utilities Corp. dba PPL Utilities
Connie Lowe	Dominion Virginia Power
Gizella Mali*	FirstEnergy Solutions Corp.
Yohannes Mariam	Office of the Peoples Counsel for the District of Columbia
Quinn Morrison	Exelon Business Services Company, LLC
Joseph Roettker	Duke Energy Ohio, Inc.
Bruce Samblanet	Appalachian Power Company
Ronald Schloendorn	PECO Energy Company
Richard Straight*	FirstEnergy Solutions Corp.
Aubrey Short	FirstEnergy Solutions Corp.
Joseph Smith	Public Service Electric & Gas Company
Jacque Smith	ReliabilityFirst Corporation
Mary Terry	PEPCO Holdings
Mary Ann Todd	Illinois Municipal Electric Agency

Brenda Truhe*
Wayne Van Liere
Katherine Zvomuya
*in person

PPL Electric Utilities Corp. dba PPL Utilities
Louisville Gas & Electric Co./Kentucky Utilities Co.
City of Cleveland, DPU, Div. of Cleveland Public Pwr.

PJM Staff:

Ron DeLoach	Manager Model Management, Model Management
Bilge Derin	Engineer, Real Time Data Management
Mary Ellen Driscoll	Contractor, Strategic and Stakeholder Communications
Kristen Foley	Paralegal, Reliability Compliance Dept.
Andy Ford	Sr. Engineer, Model Management
Bill Harm	Sr. Consultant Reliability Compliance Dept.
Srinivas Kappagantula	Sr. Analyst, Reliability Compliance Dept.
Preston Walker	Sr. Analyst, Reliability Compliance Dept.

b) Review of Administrative Documents (Mr. Moleski)

- i) Antitrust Guidelines
- ii) Code of Conduct
- iii) Compliance Disclaimer
- iv) Media Statement

There were no questions raised on the administrative documents.

c) Approval of Agenda (Mr. Moleski)

The Agenda was approved as presented.

d) Approval of the December 15, 2017 Meeting Minutes (Mr. Moleski)

The December 15, 2017 Meeting Minutes were approved as presented.

2) PJM Compliance Activities

a) Manual Updates

- i) Manual 01 (Ms. Derin)
 - (1) Ms. Derin outlined the changes to Manual 01
 - (a) Section 2.3.1 – Transmission Monitoring Capability
 - (i) New language related to the TO responsibilities per TO/TOP Matrix for TOP-010-1(i) R1, R4
 - (b) Section 3.2.3 – EMS Data Exchange
 - (i) Added language regarding communication of data quality issues.
 - (c) Section 5.2 – System Control and Monitoring (Instantaneous data)
 - (i) Clarified the definition of Tie Line to include Dynamic Transfers
 - (d) Section 5.2.1 – Tie Lines Clarified language about telemetry requirements for Tie Lines
 - (e) This was also the periodic review for Manual 01, therefore this revision contains minor changes such as grammar, formatting, updated references etc.

- ii) Manual 03a (Mr. Ford)
 - (1) Mr. Ford outlined the changes to Manual 03a
 - (a) Focus is on Section 5 updates per TOP-010-1(i) Requirement 3
 - (b) Added Section 5.6: Quality of Analysis Used In Real-time Assessments
 - (c) TOP-010-1(i) becomes effective April 1, 2018
 - (d) TO staff shall implement an Operating Process/Procedure to address the quality of analysis used in its Real-time Assessments.
 - (e) TO shall have periodic monitoring of solution quality for Real-time Assessments.
 - (i) 30 minute or less frequency, consistent with NERC Standard IRO-008-1, Requirement 2
 - (f) TO shall notify PJM when:
 - (i) Analysis quality issues affecting its Real-time Assessment have existed for 30 minutes.
 - (ii) Real-Time Assessment quality is back to normal.
- b) **NERC Standard Drafting Team Opportunities (Mr. Moleski)**
 - i) There are no NERC Standard Drafting Team openings at this time.
- c) **Update on TPL-001-5 (single points of failure) prior to NERC posting for Ballot (Mr. Harm)**
 - i) Status of Project 2015-10 SPF
 - (1) This is the third posting
 - (a) One informal posting
 - (b) One formal posting
 - (2) TPL-001-5 addresses:
 - (a) FERC Order 754 (Single Points of Failure)
 - (b) FERC Order 786 (Maintenance Outages in the Near Term Transmission Planning Horizon; stability analysis for loss of long lead time equipment)
 - (3) Separate ballot for standard and implementation plan
 - ii) FERC Order 754 (SPF)
 - (1) Changes to TPL-001-5:
 - (a) "Revision to Table 1 – Steady State and Stability Performance Planning Events"
 - (2) Modified Category P5 event to include SPF
 - (3) Added a new Category P8 Planning Event
 - (4) Footnote 13 – describes the non-redundant Protection System components considered for Category P5 and new Category P8 events
 - (5) Table 1:
 - (a) Performance requirements for new Category P8
 - (i) System shall remain stable, no cascading or uncontrolled islanding, for a 3-phase fault and failure of a non-redundant component of a Protection System
 - (ii) When analysis indicates an inability to meet Performance Criteria, assessment must include CAP
 - iii) FERC Order 786 (Maintenance Outage)
 - (1) Changes to requirement R1 is not a prescriptive, continent-wide procedure
 - (2) Entity must have a process and procedure that conform with a technical rationale which must be made available

- (a) Consistent with other requirements in TPL-001-4, such as Voltage Criteria, Low Voltage Ride Through, etc.
- (3) Removed the six month time horizon for significant outages occurring within the period of the Near Term Assessment studies (Year 1 or 2 and Year 5)
- (4) Categories P3 and P6 do not sufficiently cover planned maintenance outages
- (5) Proposed revisions to requirement R2 also include stability studies for long lead equipment that does not have a spare equipment strategy
- iv) The implementation plan is being balloted separately and contains:
 - (1) 3 year study period to perform the “raising the bar” events in P5 and P8
 - (2) 2 year period to identify CAPs

3) FERC Activities

a) Recent compliance related FERC activities

Mr. Holman reported that the OVEC integration has been approved by FERC. There is no set date for integration at this time, but it should be no later than June 1, 2018.

4) NERC and Regional Activities

a) Committee Updates (Mr. Holman)

Mr. Holman reported that BAL-002 and BAL-003 are going to Standard Drafting Team (SDT) sometime in the next few months. Daniele Croop will be a member of the BAL-003 SDT, and Dave Kimmel is on the BAL-002 SDT.

b) Standards Under Development (Mr. Walker)

- i) Project 2017-04 Periodic Review of Interchange Scheduling and Coordination Standards (INT)
 - (1) The Periodic Review Team (PRT) has made the following recommendations:
 - (a) INT-004-3.1 (Retire)
 - (b) INT-010-2.1 (Retire)
 - (c) INT-006-4 (Revise)
 - (d) INT-009-2.1 (Revise)
 - (2) The PRT believes that many of the INT Requirements are redundant and do little to protect the Bulk Electric System.
 - (3) Comments are due February 23, 2018.
- ii) Draft Reliability Guideline: Power Plant Model and Verification Testing for Synchronous Machines
 - (1) This guideline covers an array of testing considerations, procedures, and how those tests help derive or verify model parameters, as related to MOD-025-2, MOD-026-1, and MOD027-1. This document describes tests that may need to be performed for generating facilities depending on specific situations (e.g., commissioning, development of a baseline model, and model verification).
 - (2) Comments are due February 23, 2018.
- iii) Project 2017-07 Standards Alignment with Registration
 - (1) An additional comment period is open to:
 - (a) Consider whether to include a definition for UFLS into the NERC Glossary
 - (b) Review the Standards to ensure consistent use of the term “Planning Coordinator”

- (c) Remove references to PRC-004 and PRC-008 from to SAR due to being out of scope
- (2) Comments are due March 2, 2018.
- iv) Project 2017-02 Modifications to Personnel Performance, Training, and Qualifications Standards
 - (1) The PER Team recommends a footnote be added to PER-003 to ensure stakeholders understand (i) the connection between the Standard and the Program Manual; and (ii) that the certifications referenced under PER-003-1 are those under the NERC System Operator Certification Program.
 - (2) The PER-004-2 standard falls within Paragraph 81 Criterion B7 and should be retired.
 - (3) Comments are due March 7, 2018.
- v) For a full list of Standards Under Development, and a list of future standard enforcement dates, go to: <http://www.pjm.com/-/media/committees-groups/subcommittees/rscs/20180215/20180215-item-04b-nrc-updates-for-committees.ashx>

5) Member Issues and Future Agenda Items

6) Future Meeting Dates*

Friday, March 16 th , 2018 –	10:00 AM	WebEx
Friday, April 20 th , 2018 –	10:00 AM	WebEx
Thursday, May 17 th , 2018,	10:00 AM	Meeting and WebEx
Friday, June 15 th , 2018 –	10:00 AM	WebEx
Friday, July 20 th , -2018 –	10:00 AM	WebEx
Thursday, August 16 th , 2018,	10:00 AM	Meeting and WebEx
Friday, September 21 st , 2018 –	10:00 AM	WebEx
Friday, October 19 th , 2018 –	10:00 AM	WebEx
Thursday, November 16 th , 2018	10:00 AM	Meeting and WebEx
Friday December 14 th ,	10:00 AM	WebEx

* Monthly WebEx: Third Friday of every month, except months where a quarterly Face-to-Face meeting is scheduled.

Author: Kristen Foley

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. This meeting is being recorded for PJM training purposes, and participation in the meeting assumes consent

Compliance Disclaimer:

Reference to compliance examples, methods, processes or procedures during this meeting is meant solely for discussion purposes only and should not be relied upon by anyone as a guarantee or evidence of compliance with any RFC, SERC, NERC or FERC standards.

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