

## Reliability Standards and Compliance Subcommittee

WebEx

Friday, April 12, 2019

9:00 am to 10:00 pm EPT, Valley Forge, PA

### 1) Administration

#### a) Call to Order (Mr. Moleski)

##### Subcommittee Members:

Mark Holman, Chair

Thomas Moleski, Secretary

Lucia Beal

Thomas Buhler

Frank Cumpton

Claudine Fritz

David Fusek

Daniel Gacek

Mark Garza

Amanda Graybill

Wayne Harcourt

Brian Houser

Sherri Johnson

Jenjira Knernschild

Michelle Longo

Connie Lowe

Gizella Mali

Quinn Morrison

Joseph Roettker

Ruchi Singh

Joseph Smith

Jacque Smith

Richard Straight

Reed Thompson

Brenda Truhe

Richard Vendetti

Becky Webb

Katherine Zvomuya

Manager, Reliability Compliance Department.

Sr. Analyst, Reliability Compliance Department.

SMECO

Rockland Electric Company

Baltimore Gas and Electric Company

Exelon Business Services Company, LLC

Appalachian Power Company

Exelon Business Services Company, LLC

FirstEnergy Solutions Corp.

American Transmission Systems, Inc.

Duke Energy Ohio, Inc.

PPL Electric Utilities Corp. dba PPL Utilities

First Energy Corp.

ODEC

PPL Electric Utilities Corp. dba PPL Utilities

Dominion Virginia Power

FirstEnergy Solutions Corp.

Exelon Business Services Company, LLC

Duke Energy Ohio, Inc.

Duquesne Light Company

Public Service Electric & Gas Company

Duquesne Light Company

FirstEnergy Solutions Corp.

Public Service Electric & Gas Company

PPL Electric Utilities Corp. dba PPL Utilities

City of Cleveland, DPU, Div of Cleveland Public Pwr

Exelon

City of Cleveland, DPU, Div of Cleveland Public Pwr

##### PJM Staff:

Kristen Foley

Srinivas Kappagantula

Mark Kuras

Chris Pilog

Paralegal, Reliability Compliance

Sr. Analyst, Reliability Compliance.

Sr. Lead Engineer, Reliability Compliance.

Director, PJM Dispatch

**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 with the addition of the Manual 10 update.

**d) Approval of the February 14, 2019 Meeting Minutes (Mr. Moleski)**

The February 14, 2019 Meeting Minutes were approved as presented.

## 2) PJM Compliance Activities

**a) Manual Updates**

- i) Manual M01 (Ms. Derin)
  - (1) Ms. Derin outlined the changes to Manual M01
    - (a) Cover to cover periodic review –
      - (i) Minor changes in 5 sections
    - (b) Section 3.3.2: Synchrophasor Data Exchange
      - (i) Reviewed and updated for clarity.
      - (ii) Added references to the technical guidelines on pjm.com.
      - (iii) New table added to provide more details on data quality metrics.
    - (c) Attachment A: Data Specification and Collection
      - (i) Related to the FERC Order 841 on Energy Storage Resources, added a new input to PJM.
    - (d) Attachment B: Schedule of Data Submittals •
      - (i) New data submission requirement in accordance with TOP-001 R21.
    - (e) Attachment E: Reliability Guidelines for RTA Capabilities
      - (i) New attachment on reliability guidelines to mitigate the unplanned loss of EMS Real Time Assessment Capabilities.
      - (ii) New attachment referenced in 2 sections
- ii) Manual M13 (Mr. Walker / Mr. Pilong)
  - (1) Mr. Walker outlined changes to Manual M13
    - (a) Attachment J, PJM Disturbance Reporting Plan, has been updated to align with the language and reporting changes in the new version of NERC EOP-004-4 effective 4/1/2019.
    - (b) Attachment J also updated to more accurately reflect OE-417 reporting requirements.

- iii) Manual M03 (Mr. Mathew)
  - (1) Mr. Mathew outlined changes to Manual M03
    - (a) Cover to cover periodic review
      - (i) Updated links and terminology throughout
    - (b) Section 3.3: Added NextEra to Voltage Limit table
    - (c) Section 3.9: Added language for TSA real-time monitoring and control for dynamic stability
    - (d) Section 3.9.1: Updated language for Process for Handling Generator Stability Limitation
    - (e) Section 4.2.2: Added on-time criteria for hotline work with system impact
    - (f) Section 5 and Attachment A: Updated/added/removed various operating procedures as needed.

**b) NERC Standard Drafting Team Vacancies (Mr. Moleski)**

Mr. Moleski reviewed the vacancy for the Project 2019-02 BES Cyber System Information Access Management. Nominations are being sought for SAR drafting team members through 8 p.m. Eastern, Friday, April 26, 2019. PJM will not be seeking to place a member on this team. Mr. Moleski encouraged any member who successfully petitioned for a slot on the team to report progress back to the RSCS.

**c) TPL-007-2 Discussion (Ms. Dropkin)**

- i) Ms. Dropkin reviewed upcoming standard TPL-007-2
  - (1) Effective Date of TPL-007-2 Standard is 7/1/2019
  - (2) Purpose:
    - (a) Establish requirements for Transmission system planned performance during geomagnetic disturbance (GMD) events –
  - (3) Applicable to:
    - (a) Planning Coordinator
    - (b) Transmission Planner
    - (c) Transmission Owner
    - (d) Generator Owner
  - (4) Facilities
    - (a) Facilities that include power transformer(s) with a high side, wye-grounded winding with terminal voltage greater than 200 kV
  - (5) Action Required until 01/01/2020
    - (a) Submit GMD data to PJM via Gen Model Tool 04/15/2019- 06/14/2019
    - (b) Send GMD data request to TOs 05/23/2019
    - (c) Submit GMD data to PJM via NERC.Transmission.Planner@pjm.com 07/18/2019
    - (d) Run DC GIC Analysis during Benchmark and Supplemental GMD Events 01/01/2020
    - (e) Provide GIC flows to impacted TOs and GOs 01/01/2020

**d) MOD-032 and TPL-007 discussion on PJM's Gen Model tool used by generator owners to submit data. (Mr. Clifford)**

- i) Mr. Clifford outlined updates to Planning Center – Gen Model

- (1) Gen Model allows generator owners to upload required data for NERC's MOD-032- 1 and TPL-007-2 standards
  - (a) These standards establish consistent modeling data requirements and reporting procedures needed to develop planning horizon models
  - (b) These models are necessary to support reliability analyses of the transmission system
- (2) Release 2019.4
  - (a) Enhancements to Gen Model driven by user feedback and data deficiencies in previous versions
  - (b) Planning Center – Outage to application for Gen Model upgrade (prod) 4/15/2019
  - (c) Generator Owners to submit generator data via Gen Model 6/14/2019
- e) **Controls Review (Mr. Walker)**
  - i) Mr. Walker advised that PJM is currently engaged in an Internal Controls Review with RF
    - (1) First Controls Review of this nature
    - (2) Objective is to reduce scope of Standards for the Audit
    - (3) RF Deliverables
      - (a) Controls assessment of select NERC Standards and Requirements
      - (b) All work performed during this controls review will be included in audit IRA
      - (c) Modified Compliance Oversight Plan (COP)
        - (i) Potentially reduced Audit scope
- f) **Manual 10 Update (Mr. Stefanowicz)**
  - i) Mr. Stefanowicz outlined the changes to Manual 10
    - (1) Section 2.1 - Generation Outage Reporting Overview
      - (a) Added clarification for outage ticket end date as it relates to deactivation date
      - (b) Clarified the need for Generation Owners to submit stability-related reduction tickets
    - (2) Section 2.5 - Outage Reporting for Facilities Providing PJM Black Start Service
      - (a) Clarified requirement for black start test ticket to be submitted as a reduction and not information only

### 3) FERC, NERC, and Regional Activities

- a) **Committee Updates**

There were no Committee updates this month.

## b) Standards Under Development (Mr. Walker)

- i) Project 2018-03 Standards Efficiency Review Retirements
  - (1) The SAR drafting team evaluated NERC Standards using a risk-based approach to identify potential efficiencies through retirement or modification of Reliability Standard Requirements.
  - (2) Many Reliability Standards have been mandatory and enforceable for 10+ years in North America.
  - (3) The SAR drafting team identified potential candidate requirements that are not essential for reliability, could be simplified or consolidated, and could thereby reduce regulatory obligations and/or compliance burden.
  - (4) Comments are due 4/12/2019.
    - (a) PJM issued comments in agreement.
- ii) Draft Reliability Guideline: Application Guide for Modeling Turbine Governor and Active Power Frequency Controls in Stability Studies
  - (1) The NERC Power Plant Modeling and Verification Task Force (PPMVTF) developed the this Guideline to address potential issues in stability and primary frequency response simulations that can arise from application of turbine-governor models.
  - (2) The guideline recommends modeling practices to address turbine-governor model fidelity issues, including parameterization, deadband modeling, and modeling of non-responsive units.
  - (3) The guidance is intended to clarify key aspects of how turbine-governor models are applied in an effort to improve the accuracy of interconnection-wide simulations.
  - (4) Comments are due 4/26/2019
    - (a) PJM will submit supporting comments.
- iii) Workshops
  - (1) NERC–NATF–EPRI 2019 Power System Modeling Conference Workshop – June 18–19, 2019, Novi, MI
  - (2) ReliabilityFirst Spring Workshop – May 1-3, 2019, Baltimore, MD
  - (3) Human Performance Workshop – August 14-15, 2019, ReliabilityFirst Offices, OH

## 4) Member Issues and Future Agenda Items

## 5) Future Meeting Dates\*

Thursday, May 16 <sup>th</sup>	10:00 AM	Meeting and WebEx
Friday, June 21 <sup>st</sup>	10:00 AM	WebEx
Friday, July 19 <sup>th</sup>	10:00 AM	WebEx
Thursday, August 15 <sup>th</sup>	10:00 AM	Meeting and WebEx
Friday, September 20 <sup>th</sup>	10:00 AM	WebEx
Friday, October 18 <sup>th</sup>	10:00 AM	WebEx
Thursday, November 14 <sup>th</sup>	10:00 AM	Meeting and WebEx
Friday December 13 <sup>th</sup>	10:00 AM	WebEx *

\* out of sync to avoid a holiday conflict.

\* 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](http://learn.pjm.com), an easy-to-understand resource about the power industry and PJM's role.