



# Manual 03: Transmission Operations Updates – Version 56

Lagy Mathew  
Sr. Engineer, Transmission Operations

- Cover to cover periodic review
  - Updated links and terminology throughout
- Section 1.1: Updated note to account for all TOP's within PJM instead of AEP.
- Section 1.7: Updated PJM Procedure to Review Remedial Action Schemes/Special Protection Systems (RAS/SPS) to remove mention of Special Protection Systems (SPS).
- Section 3.2: Updated voltage drop reference by removing the nominal voltage language.
- Section 3.5.3: Added both Conemaugh capacitor banks to table and updated language to show both Juniata 500kV capacitor are in Auto mode.
- Section 4.2.12: Removed Nuclear Generating Station's Circuit Breaker listing table.

- Section 3.7 – Added additional lines to Dominion area for High Voltage Control.
- Section 4.3.2: Updated language in Real-Time Switching notification procedure to better align with dispatch switching practices.

#### 4.3.2 Real-Time Switching Notification Procedures

Transmission Owners must request final approval from PJM Transmission Dispatcher one-half hour prior to the expected switching time of any reportable facility. ~~In the case of any 500 kV facility outage, PJM is notified again just prior to switching to verify PJM RTO conditions and to notify other companies via the ALL-CALL. For all other scheduled transmission outages, 345 kV and below, PJM is notified again, to report that the facility is out of service, unless PJM specifically requests to be notified immediately prior to switching.~~ If the facility has NOT been switched out of service within 30-minutes from the PJM dispatcher's approval, the Transmission Owner must notify the PJM dispatcher of the delay and request approval again with an indication of the new switching time.

#### 4.3.2 Real-Time Switching Notification Procedures

Transmission Owners must request final approval from PJM Transmission Dispatcher one-half hour prior to the expected switching time of any reportable facility. ~~In the case of any 500 kV facility outage, PJM is notified again just prior to switching to verify PJM RTO conditions and to notify other companies via the ALL-CALL. For all other scheduled transmission outages, 345 kV and below, PJM is notified again, to report that the facility is out of service, unless PJM specifically requests to be notified immediately prior to switching.~~ If the switching for the work on the associated outage request has not been completed within 30 minutes from PJM dispatcher's approval, the Transmission Owner must notify the PJM dispatcher of the delay. If the Transmission Owner dispatcher expects the switching to exceed 30 minutes, the TO dispatcher can notify the PJM operator during the initial phone call. No additional notification will be required unless PJM specifically requests to be notified immediately prior to switching.

- PJM considers equipment switched out of service once it has been taken out of network operation, predominately via breakers.
- PJM considers equipment restored when it has been returned to network operation.
- PJM considers relaying disabled/enabled when they've been placed in their intended status.

- RTO
  - Updated Dresden NPIR voltage limits.
  - Updated the RTO Recognition of Automatic Sectionalizing Schemes procedure.
  - Removed TMI NPIR limits due to unit retirement.
- AE
  - Additional facilities added to Bi-Directional Ratings table.
- DPL
  - Additional facilities added to Bi-Directional Ratings table.
- AEP
  - Removed reference to Darwin in the header of the Rockport procedure.
  - Updated Tidd 138 KV switchyard operating guideline for Overduty Circuit Breakers.
  - Moved Dayton Darby procedure to AEP.
  - Updated Cook Plant Stability Procedure to include Ludington Pumping.
  - Added Jacksons Ferry SVC procedure to AEP.

- BGE
  - Added description of conditions for the 2345 circuit for the BGE 230 kV Harbor Crossing Cables procedure.
- COMED
  - Removed Quad Cities/Cordova RAS/SPS procedure due to retirement.
  - Updated SPOG 2-2-B Marengo procedure.
  - Updated SPOG 2-2-C Damen procedure.
  - Removed Itasca 138 kV N.O.Bus Tie 2-3 CB SPOG 2-37.
  - Updated Burnham – Taylor 345 kV Line Operation (SPOG 3-6).
  - Updated Transformer Operations at 138 kV Line Tie Breaker Substations (SPOG 4-30).
  - Added Prospect Heights SVC procedure (SPOG 2-45).
- DOM
  - Updated Bath County Stability restriction for Valley-Dooms 500 kV.
  - Updated Circuit Breaker name for Gordonsville Bus Tie under South Anna and Louisa CT Islanding Scheme.
  - Updated Glebe-Virginia Hills-Ox line reference from 2159A to 248 and added line #294 for parallel Braddock-Annandale in the Northern Virginia High Voltage Control procedure.
  - Removed Lexington Area Loss-of-Load Contingency Mitigation Procedure due to additional Dooms-Lexington 2168 line.

- First Energy
  - Updated Conemaugh/Hunterstown/Fairview Stability Limits table to include Fairview and Hunterstown running in a 1X1 configuration.
  - Updated Homer City #2 & #3 Stability Trip (RAS) unit output arming criteria.
  - Updated Homer City Stability Limits single outage damping restrictions.
  - Updated Seneca Stability procedure.
  - Updated Seneca Pumping Notification Procedure (title only).
- PPL/UGI
  - Removed Martins Creek Over-dutied breaker procedure.
  - Added new Wescosville 500/138 kV T3 Transformer Switching procedure.
  - Updated the UGI/PPL 66 kV Tie Line Operation procedure.

- Attachment A
  - Removed the Quad Cities Unit Stability Trip Scheme.
  - Removed the Cordova /Quad Cities Multi-Line-Outage Unit Trip Scheme.
  - Updated North Hampton RAS description based on future retirement.
- Attachment B
  - Replaced cause type from 'New Construction' to 'Construction: New Equipment' to align with eDART.

- Manual First Reads:
  - October 10<sup>th</sup> – SOS Joint & SOS-T (Section 5 only)
  - October 15<sup>th</sup> – OC
  - October 16<sup>th</sup> – MIC (Info Only)
  - October 17<sup>th</sup> – PC (Info Only)
  - October 31<sup>st</sup> – MRC
- Manual Second Reads/Endorsements:
  - November 7<sup>th</sup> – SOS Joint & SOS-T (Section 5 only)
  - November 12<sup>th</sup> – OC
  - December 5<sup>th</sup> – MRC
- December 6<sup>th</sup> – Implementation Date