Manual 03: Transmission Operations Updates – Version 51

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Planning Committee
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Review Timeline

- **Manual First Reads:**
  - April 5th – SOS Joint
  - April 11th – OC
  - April 12th – MIC (Info Only)
  - April 13th – PC (Info Only)
  - April 26th -- SOS-T (Section 5 only)
  - April 27th - MRC
Manual Second Reads/Endorsements:
- April 26th - SOS Joint
- May 2\textsuperscript{nd} - OC
- June 1\textsuperscript{st} - SOS-T (Section 5 only)
- May 25\textsuperscript{th} - MRC
Overview of changes

• Periodic Review

• Section 3.3, Exhibit 3 and Exhibit 5 – Updated section and combined exhibits with new tables for PJM Baseline Voltage Limits and Transmission Owners’ Voltage Limits

• Section 3.3.3 – Moved Generator Voltage Schedules from Section 3.3.3 to new Section 3.11

• Section 3.12 – Added new section, Reactive Reserve Check (RRC) (Previously located in Manual 14D: Generator Operational Requirements)
Overview of changes

• Section 4.1 – Added language highlighting need for Transmission Owners to enter outage requests on equipment owned by Generation Owners

• Section 4.2.2 – Updated the relay outage and degradation reporting criteria, changed note text from ‘hotline’ to ‘automatic reclosing.’

• Section 4.2.6 – Revised peak period outage scheduling guidelines to add clarity on denial under certain projected conditions
Overview of changes

• Section 5 – Updated/added/removed various operating procedures as needed
• Section 5 – Replaced “PSE&G/ConED Wheel” procedure with “NY/NJ PAR Coordination” procedure
• Detailed changes on Section 5 can be reviewed on the M03 secure page:
  http://www.pjm.com/documents/manuals/private-m03.aspx

• Specific questions on Section 5 changes can be sent to M03_Change@pjm.com.
Appendix: Manual-03: Throughout and Sections 1-4

• Periodic Review
• Section 1.3 – Added contingency verification step to the modeling issue investigation process
• Section 1.5.6 – Added note to indicate PJM EMS has the capability to monitor flow on devices such as circuit breakers (Flow Device). TO’s can submit device/circuit breaker ratings following same process as other facilities
• Section 3.3, Exhibit 3 and Exhibit 5 – Updated section and combined exhibits with new tables for PJM Baseline Voltage Limits and Transmission Owners’ Voltage Limits
• Section 3.3.3 – Moved Generator Voltage Schedules from Section 3.3.3 to new Section 3.11
• Section 3.5.3 – Updated Bulk Electric System Capacitors Operation at Erie South, Four Mile, and West Wharton
• Section 3.8 – Changed one Eastern Interface definition line from TMI – Hosensack to Lauschtown – Hosensack. Reformatted interface definition table to “from-to” format
• Section 3.12 – Added new section, Reactive Reserve Check (RRC) (Previously located in Manual 14D: Generator Operational Requirements)
• Section 4.1 – Added language highlighting need for Transmission Owners to enter outage requests on equipment owned by Generation Owners

• Section 4.2.2 – Updated the relay outage and degradation reporting criteria, changed note text from ‘hotline’ to ‘automatic reclosing.’

• Section 4.2.6 – Revised peak period outage scheduling guidelines to add clarity on denial under certain projected conditions
Appendix: Manual-03 Section 5: RTO ISONE NYISO MISO

- Remove Single breaker derate section for BC, DOM, DLCO, DEOK, FE-South, PPL and PS
- Updated the NPIR voltage limit table
- Updated procedure types throughout in various procedure table listings
- Replaced “PSE&G/ConED Wheel” procedure with “NY/NJ PAR Coordination” procedure
• Updated Smith Mountain 138 kV Station Stability
• Updated Conesville 345 kV Plant Operating Guidelines
• Updated Cook Unit Isolation on Select Circuits
• Updated Tidd 138 kV Switchyard Operating Guidelines for Overdutied Circuit Breakers
• Updated the Calvert Cliffs procedure
• Removed the Concord Street RAS/SPS procedure due to retirement on 5/31/17 after completion of associated upgrades
• Updated the Mt. Washington RAS/SPS procedure projected retirement date from June 2018 to December 2018 to coincide with expected completion of associated upgrades
• Updated reference for Pleasant Prairie – Zion Energy Center procedure
• Updated the Quad Cities/Cordova Limitations (RAS/SPS)
• Removed the Byron/Lee County Operating Guide (RAS/SPS) due to upgrades
• Updated the Crescent 345/138 kV Transformer Relief procedure by removing a single breaker derate reference
Appendix: Manual-03 Section 5: Dominion

• Updated reference title for Bath County – Valley Stability RAS/SPS
• Added North Hampton Remedial Action Scheme procedure
Appendix: Manual 3-Section 5: FE-East, -West, -South

- FE-East: Added the West Wharton SVC procedure
- FE-East: Added the Erie South SVC procedure
• UGI: Updated the Mountain ‘23030’ Bus Tie Operation procedure
• PPL: Removed the Jenkins SPS/RAS procedure due to retirement
• PPL: Added Susquehanna Circuit Breaker Switching procedure
• PPL: Added Martins Creek Stability procedure
• PPL: Changed title of procedure to “Northeast PA (NEPA) Stability Limit” (previously called “Northeast PA (NEPA) Transfer Limit”)
• PPL: In the NEPA tables, updated ‘Lackawanna – Mountain’ line to Lackawanna – Stanton 2’ line; and, updated ‘Lackawanna – Stanton’ line to Lackawanna – Stanton 1’ line

• PPL: Added table for ‘Transmission Outages With Impact to Sunbury CC’ in the NEPA section
• PECO: Updated the Peach Bottom Transformer RAS/SPS procedure
• PECO: Reformatted tables in Limerick 4A and 4B 500/230 kV Transformer Banks procedure
• PSEG: Renamed the Bergen Overdutied Breaker procedure (previously called Bergen Normally Open Equipment procedure) and edited procedure for clarity
• BGE: Removed Concord St. RAS/SPS procedure due to retirement
• COMED: Removed Byron/Lee County Operating Guide (RAS/SPS) due to retirement
• DOM: Added North Hampton Remedial Action Scheme procedure
• PPL: Removed the Jenkins SPS/RAS procedure due to retirement
• Updated the list of sectionalizing schemes by removing schemes no longer needed due to upgrades
• Added new sectionalizing schemes in Dominion zone with effective dates of 7/21/17
• Updated UGI Mountain #2 230/66 kV transformer sectionalizing scheme to refer to new Mountain – Stanton 230 kV line