Manual 03: Transmission Operations
Updates

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Review Timeline

• Manual 1st Reads:
  – September 24th – SOS joint
  – October 7th – OC
  – October 8th – MIC (Info Only)
  – October 9th – PC (Info Only)
  – October 29th – SOS T (section 5 only)
  – October 30th - MRC
Review Timeline

• Manual 2nd Reads/Endorsement:
  – October 29th – SOS joint
  – November 6th - OC
  – November 20th – MRC
  – November 25th – SOS-T (section 5 only)

• December 1st Implementation
• Throughout document, replaced LCC with TO
• Throughout document, replaced Eastern Kentucky Power Cooperative with East Kentucky Power Cooperative
• Throughout document replaced Midwest with Midcontinent or with MISO

• Section 1.4.2: Revised T.O. name from AP to FE South
• Exhibit 1: Changed NOTE 1 to read ‘TO must shed load within 5 minutes upon directive’

• Section 2.1.1: Added requirements for new Load Dump ratings (effective June 1, 2015)
  – Load dump ratings submitted by TO’s are required to be, at a minimum, 3% higher than the submitted LTE rating. This requirement follows the guidelines established by the Transmission & Substation Subcommittee

• Section 2.1.2: Changed title and language to “Short-Term” from “Short-Time” emergency ratings. Added reference to Attachment F which contains the STE list.
• Section 3.2: Added language to clarify timing to shed load for post-contingency voltage collapse (for consistency with M-13)
  – Shed load, if necessary, will be implemented in 30 minutes to correct post contingency simulated voltage violations.

• Section 3.5.3: Updated section on opening EHV lines for voltage control

• Section 3.7 and Exhibit 4: Updated section to include new SVC’s and changes in capacitors switching logic
• Section 3.7.1: Changed AEP 30 minute emergency voltage limit from 920 kV to 840 kV
• Section 3.8: Added Hopatcong – Lackawanna 500 kV line to the Eastern transfer interface definition
• Section 3.9.1: Added the Process for Handling Stability Issues that is currently posted on OASIS
• Section 3.9 Exhibit 5: Changed Dayton voltage drop limit from 8% to 10%
• Section 4.2.6: Added guideline language to avoid scheduling impactful long-duration outages before September 15th.
• 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
• Removed Peach Bottom 500kV Normal High Voltage Limit
• Changed reference of ISO-NE Millstone #1 unit to #2 unit and reference of three units to two units
• Added header title for NYISO procedure section
• Added header title and name change for MISO procedure section
• Updated AEP Kammer Operating Procedures
• Updated AEP Conesville 345kV plant Operating Guidelines stability limitations table
• Updated AEP Rockport Operating Guide Emergency Unit Tripping (EUT) (SPS) and generation output tables
• Updated AEP Gavin Mountaineer - Rolling Hills Stability
• Updated AEP Additional Regional Procedures
• Removed AEP Single Breaker Derates
• Updated AEP index table to include Tidd 138 kV procedure

• Updated DEOK Breaker De-rate Table for Todhunter-Foster
• Updated DEOK normally open Red Bank CB 920 138kV auto closing scheme
• Updated AE Directional Ratings Table

• Updated Westport Breaker Limitation section to reflect current procedures (BGE)
• Revised language for 123 Marengo CB procedure (SPOG 2-2-B)
• Removed 154 Libertyville bus tie scheme (SPOG 2-13) from the Normally Open Bus Tie Table
• Added 7 State Line bus tie scheme to the Normally Open Bus Tie table
• Removed Waukegan 138 kV Bus Tie procedure (also from Attachment A)
• Removed Wolfs Crossing-Sandwich 138 kV 14302 line procedure (also from Attachment A)
• Added MISO Pleasant Prairie – Zion E.C. (Conservative Operations) procedure to ComEd section
• Updated DLCO Crescent #1 345/138 kV autotransformer relief procedure
• Updated DLCO Breaker De-rate Table
• Added header for Dayton Procedure section
• Updated Bath County Thermal SPS procedure
• Updated Bath County Stability restriction procedure
• Added Bath County-Valley Stability SPS procedure (Also in Attachment A)
• Updated FE South Belmont SPS language
• Updated FE South Black Oak SVC
• Added new FE South Meadow Brook SVC procedure
• Removed FE East Conemaugh unit # 2 Stability Trip SPS (also from Attachment A)
• Added new FE East Hunterstown SVC Procedure
• Added new FE East Altoona SVC procedure
• Updated FE East Conemaugh and Hunterstown stability limits
• Updated FE East Keystone-Conemaugh 5003 Re-Close procedure
• Updated FE East/South Tie Lines Switching Procedure
• Updated FE East Warren-Falconer 115 kV relay procedure
• Updated FE East East Sayre-North Waverly relay procedure
• Removed Sunbury Trans 22 & 23 Operating Restrictions
• Added new Jenkins SPS procedure (also in Attachment A)

• Added Bergen to the Closing Normally Open Bus Section Breakers section (PS)
• Updated the Artificial Island procedure to remove the 5038 line outage and the cross trip on the 5015 line (also Attachment A).
• Revised SPS descriptions to remove specific mention of contingency names
• Updated Belmont SPS description
• Updated Clover Unit 2 SPS description
• Added installation year for Dominion SPSs
• Changed table header from ERO to RRO
• Added Bath County Thermal SPS to the list (existing procedure)
• Attachment B: Added open ended voltages for the Lackawanna – Susquehanna 500 kV line
• Removed AEP facilities from the list:
  Ohio Central T1; Galion-Ohio Central; Kammer T300; Kammer T100A/100B; Tanners Creek T A/B; Fall Creek T1; Fall Creek-Noblesville; Benton Harbor-Cook; Benton Harbor-Palisade; Fostoria Central-South Berwick; Galion-South Berwick; Kanawha River T B; Kanawha River – Sporn; Fall Creek T1

• Removed DOM facilities from the list:
  Winfall – Suffolk; Fentress TX1; Fentress TX3
• Updated line name for the AEP Maliszewski T1 scheme
• Updated the AEP Benton Harbor transformer scheme
• Updated the transformer name for the AEP Baker T 200 scheme
• Updated note for the DOM Lexington T3 scheme