Manual First Reads:
- September 28th – SOS Joint
- October 4th – OC
- October 5th – MIC (Info Only)
- October 6th – PC (Info Only)
- October 26th -- SOS-T (Section 5 only)
- October 27th - MRC
Review Timeline

• Manual Second Reads/Endorsement:
  – October 26th – SOS Joint
  – November 1st – OC
  – November 17th – MRC
  – November 30th – SOS-T (Approval Section 5 only)
  – December 1st, 2016 Implementation
Overview of changes

• Periodic Review
• References – Added NYISO PJM Joint Operating Agreement
• Section 1.7 – Revised RAS/SPS review process. Added RAS term throughout manual
• Section 3.4 – Removed PCLLRW pertaining to NPIR voltages
• Section 5 – Updated ‘Voltage Control at Nuclear Stations’ Procedure
Overview of changes

• Section 5 – Updated the BC/PEPCO Operating Procedure
• Section 5 – Updated various procedures as needed
• Section 5 and Attachment A - Removed Bath County Thermal SPS and all references
• Attachment B – Added new attachment ‘Transmission Outage ‘Cut-In’ Ticket Guidelines
• 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

• Throughout Manual – Periodic Review
  – Corrected typos and grammar
  – Revised terms for consistency
  – Updated graphics, tables, and exhibits

• References – Added NYISO PJM Joint Operating Agreement

• Section 1.1 – Listed ITCI as TOP for its facilities

• Section 1.4 – Clarified language
Appendix: Manual-03: Throughout and Sections 1-4

• Section 1.7 – Revised RAS/SPS review process; added RAS term throughout manual
• Section 2.1.3 – Revised language in table – ‘PJM Actual Overload Thermal Operating Policy’ on limit exceedance
• Section 3, Exhibit 5 – Updated SMECO integration date to Q1 2017
• Section 3.3.3 – Clarified generator voltage exemption basis
• Section 3.4 – Removed PCLLRW pertaining to NPIR voltages
• Section 3.5.3 – Juniata capacitor bank update
• Section 3.8 – Updated the Cleveland Interface definition by adding new facilities and renaming facilities
  • Lake Avenue #1 and #2 345/138 kV transformers
  • Renaming Black River – Lorain 138 kV to Charleston – Lorain 138 kV
Appendix: Manual-03: Throughout and Sections 1-4

- Section 3.8 – Updated the CE-East Interface definition by renaming facilities
  - Renamed Olive – University Park to Olive – University Park North 345 kV line
- Section 4 – Clarified language and distinguished between transmission outage denial and cancellation
- Section 4.2.2 – Updated relay work reporting to include 230 kV and other facilities near generating plants
Appendix: Manual-03: Throughout and Sections 1-4

- Section 4.2.9 – Revised language on rescheduling outages for clarity and added information about modifying equipment list on tickets
- Section 4.2.11 – Updated Nuclear Circuit Breaker table
• RTO – Updated Voltage Control at Nuclear Stations Procedure
• RTO – Updated the BC/PEPCO Operating Procedure
• RTO – Updated Nuclear Voltage Limits for Cook, created separate table for Cook limits
Appendix: Manual 3-Section 5: AEP

- AEP – Removed reference to AEP ATST in Smith Mountain Procedure
- AEP – Updated limits where needed for Gavin – Mountaineer – Rolling Hills Stability guide
Appendix: Manual 3-Section 5: FE-East, -West, -South

• FE-East – Updated the Conemaugh/Hunterstown Procedure
• Fe-East – Updated the Homer City Procedure
- Removed Bath County Thermal SPS and all references
- Removed outage timeframe from Bath County - Valley Stability SPS
- Added temperature set for Carolina 54 SPS
- Updated Clover SPS/RAS Procedure
- Removed references from table to both Cloverdale 500/345kV transformers from Bath County Stability Restrictions
Appendix: Manual-03 Section 5: AE

- AE – Updated directional ratings table
• PSEG – Updated the Artificial Island Procedure due to the Cross Trip SPS retirement
• PSEG – Updated the Bergen Procedure
The Artificial Island Cross-Trip was installed after a barge hit the 5015 on March 1, 1987 causing a long-term outage of the 5015.

The purpose of the Cross-Trip was to allow the Artificial Island nuclear units to operate at full-load with the 5015 out due to instability.

The Cross-Trip was installed and armed on the 5021 (later moved to the 5038) and if the 5021 tripped while the 5015 was out, the Cross-Trip would TRIP (SCRAM) a nuclear unit.

After the 5015 returned at the end of 1987, the Cross-Trip was kept available.

Since 1987, the Cross-Trip was only used approximately six times.

The last time the Cross-Trip was used was approximately 11 years ago.

The Cross-Trip requires cut-off switches at five stations. Three of the stations are tie-company stations and out of PSE&G’s control.

Due to the risk of a TRIP (SCRAM) of a nuclear unit and to ensure the safety, reliability, and operating performance of the units, and potential cyber attacks, PSE&G and PSEG Nuclear retired the Artificial Island Cross-Trip.
Appendix: Manual-03 Section 5: ComEd

- ComEd – Updated the ComEd Kincaid Stability Procedure
- ComEd – Updated the East Frankfort SPS Procedure
- ComEd – Removed the ComEd Northbrook/Highland Park Transfer Trip SPS due to retirement
- ComEd – Added retirement dates for the ComEd Quad Cities/Cordova SPS
• Removed PSEG Cross Trip SPS (Artificial Island) due to retirement
• Removed ComEd Northbrook/Highland Park Transfer Trip SPS due to retirement
• Modified the PECO Planebrook SPS description
• Removed Bath County Thermal SPS
• Rename title of Clover Generator Shed Scheme to Clover RAS/SPS Scheme
• Attachment B – Added new attachment ‘Transmission Outage ‘Cut-In’ Ticket Guidelines
• Revision History (V49) – Corrected history to add ‘removal of Load Shed Directive procedure and placement in M-13: Emergency Procedures