

# Manual 3: Transmission Operations Updates – Version 52

Yuri Smolanitsky

Sr. Engineer, Transmission Operations



## ➤ Manual First Reads:

- November 2<sup>nd</sup> – SOS Joint
- November 2<sup>nd</sup> – SOS-T (Section 5 only)
- November 7<sup>th</sup> – OC
- November 8<sup>th</sup> – MIC (Info Only)
- November 9<sup>th</sup> – PC (Info Only)
- December 7<sup>th</sup> – MRC

- Manual Second Reads/Endorsements:
  - December 7<sup>th</sup> – SOS Joint
  - December 7<sup>th</sup> – SOS-T (Section 5 only)
  - December 12<sup>th</sup> – OC
  - December 21<sup>st</sup> – MRC
  - December 22<sup>nd</sup> – Implementation Date

- Periodic Review.
- Revise SPS designation to either RAS or to Scheme.
- **Section 1.2 – Added notification language for conditions that will result in the loss of multiple generation units.**
- Section 3.9 – Added NERC TPL standard references for stability analysis criteria.
- Section 3.9.1 – Removed reference to out of Management Control for stability restrictions.

- **Section 5 - Added procedure for assessing gas infrastructure contingency impact on the electric system.**
- Section 5 – Updated/added/removed various operating procedures as needed.
- Attachment E – Added FE-South Elko 230/138 kV transformer sectionalizing schemes with effective dates of February 1<sup>st</sup>, 2018.
- Attachment E – Added PPL Jenkins #1 230/69 kV transformer sectionalizing schemes with effective dates of February 1<sup>st</sup>, 2018.

- 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](mailto:M03_Change@pjm.com).

- Periodic Review.
- Revise SPS designation to either RAS or to Scheme.
- **Section 1.2 – Added notification language for conditions that will result in the loss of multiple generation units.**
- Section 1.7 – Updated PJM transition dates to revised RAS definition.
- Section 2.1.1 – Added exception language for thermal rating separation between Emergency and Load Dump ratings.
- Section 3.11 – Added notification language for the Generator Voltage Schedules updates.

- Section 3.12 – Updated Reactive Reserve Check language.
- Section 3.5.3 – Added Montgomery and Damascus 230 kV capacitors to bulk electric system capacitors operation and removed Black Oak, Meadow Brook and Doubs #2 capacitors.
- Section 3.9 – Added NERC TPL standard references for stability analysis criteria.
- Section 3.9.1 – Removed reference to out of Management Control for stability restrictions.



- Added procedure for assessing gas infrastructure contingency impact on the electric system.
- Updated the Automatic Remedial Action Scheme (RAS) operating criteria section.
- Updated the NPIR voltage limit table.
- Removed PJM/NY-ISO PAR micro processor operation.
- Updated oscillation mitigation procedure.
- Updated procedure types throughout in various procedure table listings.

- AEP: Updated Rockport operating procedure.
- BGE: Updated Mt. Washington RAS procedure.
- ComEd: Updated Kincaid stability trip scheme procedure.
- ComEd: Updated Powerton stability trip scheme procedure.
- ComEd: Updated Quad Cities and Cordova limitations procedure.
- ComEd: Updated University Park North Energy Center stability trip scheme procedure.

- ComEd: Updated Elgin Energy Center stability bus tie scheme procedure
- ComEd: Updated Dresden Unit 2 trip scheme procedure.
- ComEd: Updated East Frankfort #83 345/138 kV transformer scheme procedure.
- ComEd: Updated Wolfs transformer #81 345/138 kV transformer scheme procedure.

- Dayton: Updated Darby plant procedure.
- DLCO: Removed Crescent 345/138 kV transformer relief procedure.
- Dominion: Updated Clover generation shed scheme procedure\*.
- Dominion: Updated Bath County-Valley stability RAS procedure\*.
- Dominion: Updated Carolina RAS procedure\*.

\*Note this is a name change only.

- FE-East: Removed Yards Creek SPS procedure (tentative date 12/31/2017)
- FE-East: Updated Warren-Falconer procedure by removing SPS designation (note this is a name change only).
- FE-East: Updated East Sayre-North Waverly procedure by removing SPS designation (note this is a name change only).
- FE-East: Updated Seneca's pumping procedure.
- FE-West: Updated Mansfield reclosing procedure.
- FE-South: Removed Willow Island area thermal overload procedure.

- FE-South: Added West Moreland / Ronco / South Bend stability procedure.
- FE-South: Added Squab Hollow SVC procedure.
- FE-South: Updated Belmont RAS procedure.
- PECO: Updated the Peach Bottom transformer outage procedure

- AEP: Removed Rockport Fast Valving SPS.
- COMED: Removed Aurora SPS.
- FE-East: Removed Warren-Falconer SPS.
- FE-East: Removed East Sayre-North Waverly SPS.
- FE-East: Removed Yards Creek SPS (tentative date 12/31/2017).
- Modified RAS/SPS descriptions and reorganized list into two tables, one table for RAS and second table for non-redundant schemes.

- Added FE-South Elko 230/138 kV transformer sectionalizing schemes with effective dates of February 1<sup>st</sup>, 2018.
- Added PPL Jenkins #1 230/69 kV transformer sectionalizing schemes with effective dates of February 1<sup>st</sup>, 2018.
- Removed PPL Alburtis #1 500/230 kV sectionalizing scheme.