Administrative Changes

- Periodic Review
- Replaced Local Control Center with Transmission Owner and replaced LCC with TO in multiple locations for consistency with other manuals
- Exhibit 1 and Section 6, replaced System Operator Certification with PJM TO Operator and Generation Dispatcher Certification for consistency with Manual 40
- Section 4.1.7 - SCADA - Supervisory Control and Data Acquisition - grammatical correction
Section 5.3.4 eDART

• Added requirement that all generators shall be modeled in eDART consistent with the PJM EMS model.
  – PJM will notify those affected and will implement a mutually acceptable transition plan

• Added requirements for all **new** black start generators to be modeled individually in eDART and PJM EMS.
  – An example would be a combined cycle plant where one (or more) CTs are providing black start service
  – Needed for modeling consistency
Section 5.7 Generation Transfer Process

• New section, relocated from Manual 10, Section 5.2
Section 7 Changes

• Section 7.1.1 Generator Real Power Control
  – Revised over-frequency level per NERC Reliability Standard PRC-024-2

• Section 7.1.2 Voltage and Reactive Control
  – Added requirement that the Transmission Owner copy PJM via email on the voltage schedules assigned to the Generator Owner/Operator
    • Also included in new revision of PJM M-03, Section 3.11
    • Clarifies how Transmission Owners shall communicate generator voltage schedules to PJM per existing requirement.
    • Change is intended to facilitate VAR-001-4 compliance
Section 7 Changes

• Section 7.1.2 Voltage and Reactive Control (continued)
  – Added the requirement for non-synchronous generating facilities which entered the New Service Queue on or after November 1, 2016 to provide dynamic reactive power and follow the assigned voltage schedule.
  – Consistent with FERC Order No. 827
  – Some existing non-synchronous generating facilities are currently providing dynamic reactive power:
    • As needed by Transmission Owner based on System Impact Studies.
    • Requirement can be met using smart inverters (Type III/Type IV inverter-based wind turbines), or dynamic reactive devices (e.g. SVCs).
Section 7 Changes

• Section 7.1.2 Voltage and Reactive Control (continued)
  – Deleted voltage schedule exemption details and left the reference to the process as described in M3.
  – Clarified that AVR & PSS outage notifications must be made verbally and via eDART
  – Clarified the wording in the note related to Power System Stabilizers

• Section 7.1.6 Black Start
  – Clarified wording regarding the TO’s capability and authority during system restoration

• Section 7.3.5 Fuel and Emissions Reporting
  – Removed references to capacity resources and added reference to specific EOP standard
Section 11 Changes

• Section 11 Generator Data Confidentiality Procedures
  – Clarified wording and included parameter data to be provided to a Transmission Owner for system restoration planning purposes
  – See 9/12/17 OC meeting agenda item 7 for details
  – Exhibit 13: Generator Data Sharing Process Flow also revised accordingly
  – Attachment J: Generator Data Release Matrix
    • Revised to reflect changes in section 11; added column for restoration-related generator parameters
Attachment N:
Cold Weather Preparation Guideline and Checklist

• Minor revisions based on Version 2 of NERC’s Generating Unit Winter Weather Readiness Reliability Guideline.
• Updated the links to the NERC Guideline and the RF presentation
• First Reads, Second Reads:
  – SOS: October 4, 2017, November 2, 2017
  – RSCS: October 20, 2017