Manual 03: Transmission Operations Updates – Version 57

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04/17/2020
Reliability Standards and Compliance Subcommittee (RSCS)
• Cover to cover periodic review
  – Corrected typos, removed references to SPS.
• Section 1.5: Removed Section 2 reference from Manual 3A.

1.5.1 Model Information and Data Requirements

• The Transmission Owner is responsible to provide the information and data needed by PJM about the Transmission Owner System.
• Telemetry data requirements are defined in the PJM M-01: Control Center and Data Exchange Requirement.
• System analytical model information and update requirements are defined in the PJM M-3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA) – Section 2.

1.5.12 Process to Change the PJM Congestion Management Control Facilities List

The process and timeline required to make adjustments to the existing Congestion Management Control Facilities List is described in detail in the PJM M-3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA) – Section 2.

• Section 1.7: Updated RAS procedure for PRC-012 standard.
• Section 3 and Attachment C: Updated baseline voltage tables and voltage exception request due to new eDART function for voltage limit implementation.

<table>
<thead>
<tr>
<th>Baseline</th>
<th>310.5</th>
<th>317.4</th>
<th>327.8</th>
<th>362.3</th>
<th>5.0%</th>
<th>8.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.U.</td>
<td>0.90</td>
<td>0.92</td>
<td>0.95</td>
<td>1.05</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Voltage Limit Exceptions
https://edart.pjm.com/reports/voltagelimits.csv

• Section 3.11: Updated language showing eDART Voltage Schedule is the required method for communicating generator voltage schedules.
• Section 3.9: Removed language concerning TSA Benchmarking.

TSA is used to monitor and control the generators with known stability concerns as defined in Manual-03: Section 5. Since TSA uses real-time system conditions to assess stability, the limits tend to be less conservative or less restrictive than the M-03 Section 5 procedures. The Section 5 limits are usually determined using conservative assumptions in order to cover a wider range of operating conditions. For scheduled transmission outages, TSA studies are used to determine the stability limits. For forced outages, the Section 5 procedure limits are used until a real-time TSA run is completed. PJM will also use the Section 5 stability limits in certain cases, such as when TSA is down or the plant/generator model has not been fully benchmarked.

• Section 4.5: Added Outage Acceleration posting site and contact email.

Under certain circumstances, it may be beneficial to investigate the possibility of moving or accelerating a transmission facility outage if shortening the overall outage time or moving the start/stop dates can alleviate transmission congestion or revenue inadequacy. To accommodate outages that may be accelerated under this process, PJM will review “on time” outages exceeding 5 days in duration submitted by the Transmission Owners and forced outages projected to last into the month of the analysis window. This analysis will begin on the first of the month 60 days in advance of the outage start dates. If such outage meets the criteria as outlined in the next section, it may be posted for acceleration under this process. The posting is at https://www.pjm.com/markets-and-operations/eTools/Oasis/outage-acceler.aspx. The PJM contact information for Outage Acceleration is outage_acceleration_group2@pjm.com.
Attachment A & Attachment B

- Attachment A
  - Updated language for Wolfs Crossing RAS.
  - Removed two Lisle schemes due to station reconfiguration.

- Attachment B
  - Added clarifying language to ‘Cut-In’ Criteria for TO associated with project work.
April 13
SOS Joint & SOS-T
(Section 5 only)

April 14
PC (Info Only)

April 15
MIC (Info Only)

April 16
OC

April 30
MRC

May 14
OC

May 18
SOS Joint & SOS-T
(Section 5 only)

May 28
MRC

May 29
Implementation Date

Timeline

2020