Manual 01 Revision 40 First Read

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Engineer – Real-Time Data Management
System Operations Subcommittee
April 4, 2019
Overview

- Cover to cover periodic review
  - Minor changes in 5 sections
- 1 New Attachment
- 1 Revised Section with more detailed requirements
• **Section 1: PJM Systems**
  - Renamed eRPM to **Capacity Exchange**.

• **Section 3.2.4: Data Exchange during EMS Datalink Outages**
  - Updated references to the **subsection numbers** in the text.

• **Section 3.8: Planning, Coordinating and Notification of System Changes**
  - Renamed PJM Client Managers to **PJM Member Relations**.

• **Attachment A: Data Specification and Collection**
  - Removed references to non-existing documents.

• **Attachment B: Schedule of Data Submittals**
  - Updated references to **EOP-005 with the new version**.
Section 3.3.2: Synchrophasor Data Exchange

- Reviewed and updated for clarity.
- Added references to the technical guidelines on pjm.com.
- New table added to provide more details on data quality metrics.

<table>
<thead>
<tr>
<th>Metric Type</th>
<th>Minimum Accuracy</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Link Availability</td>
<td>99.80%</td>
<td>Link availability is defined as the uptime of the TCP/IP connection of the C37.118 stream from the site PDC to PJM SPDC.</td>
</tr>
<tr>
<td>Good Quality Data</td>
<td>97.00%</td>
<td>Good quality data is defined by the IEEE C37.118 protocol as a “0x0000” status word per PMU within the stream.</td>
</tr>
</tbody>
</table>
Attachment E: Reliability Guidelines for RTA Capabilities

• New attachment on reliability guidelines to mitigate the unplanned loss of EMS Real Time Assessment Capabilities.
  – Support staff call-out procedures
  – Notification of RTU and ICCP outages
  – Enhanced Alarming capabilities
  – Communication of Real Time Assessment capabilities.

• Developed by PJM and several members of SOS-T.
• Emphasized that these serve as guidelines, not requirements.
Attachment E: Reliability Guidelines for RTA Capabilities

• New attachment referenced in 2 sections:
  – Section 2.3.1: Transmission Monitoring Capability
  – Section 2.7: PJM Member Back Up Capability Required to Support PJM in its TOP Role

Note:
In addition to the requirements above, it is recommended that PJM and PJM Member Transmission Owners follow the reliability guidelines listed in Attachment E of this manual to minimize the impacts and duration of the loss of Real Time Assessment capabilities.
Committee Schedule

- First Read
  - April 4 – SOS
  - April 9 – OC
  - April 25 – MRC

- Endorsement
  - May 2 – SOS
  - May 7 – DMS (informational)
  - May 14 – OC
  - May 30 – MRC

- Planned Effective Date: May 30, 2019