

# Manual 01 Revision 37 Second Read

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Section	Description
Section 2.3.1 – Transmission Monitoring Capability	New language related to the TO responsibilities per TO/TOP Matrix for TOP-010-1(i) R1, R4
Section 3.2.3 – EMS Data Exchange	Added language regarding communication of data quality issues.
Section 5.2 – System Control and Monitoring (Instantaneous data)	Clarified the definition of Tie Line to include Dynamic Transfers
Section 5.2.1 – Tie Lines	Clarified language about telemetry requirements for Tie Lines

- This was also the periodic review for Manual 01.

- Section 5.3.5 – Accuracy Checks and Retention
  - Updated the incorrect reference to Manual 33.

“Any disputes involving any aspect of the billing metering standards or their application are resolved as described in Manual 33: Administrative Services for the PJM **Operating Interconnection Agreement**.”

- Section 2.3.1 – Transmission Monitoring Capability
  - New language to cover TO responsibilities related to TOP-010-1(i) R1 and R4:

PJM Member Transmission Owners shall [TOP-010-1(i) R1 and R4]:

1. Implement an **Operating Process or Operating Procedure** to address **the quality of Real-time data necessary to perform Real-time monitoring and Real-time assessments**, as appropriate.
2. Utilize their data quality indicators to **indicate the quality of Real-time data to their System Operators**,
3. Have an **alarm process monitor** that provides notification(s) to their System Operators when a failure of their Real-time monitoring alarm processor has occurred.”

- Section 3.2.3 – EMS Data Exchange
  - New language to describe PJM and PJM Member actions when PJM detects real-time data quality issues.

“If PJM encounters any **real-time data quality issues that affect real-time assessments, PJM will notify the PJM Member via email or phone call.** When notified, PJM Member shall address the data quality issue and follow the guidelines below during the data outage to communicate the data to PJM.”

- Section 5.2 – System Control and Monitoring
  - Clarifying the definition of Tie Line to include Dynamic Transfers

“PJM defines a Tie Line as a **physical circuit or dynamic transfer**, connecting two balancing authority areas, control areas, or fully metered electric system regions.”

- Section 5.2.1 – Tie Lines
  - Clarifying existing language to point out that the telemetry requirements apply to all types of Tie Lines

“These requirements apply to all types of Tie Lines (External Tie Lines, Dynamic Transfers, Internal Tie Lines and Special Cases) described in this section.”

- **Second Read/Endorsement**
  - 3/1 – SOS Joint
  - 3/6 – OC
  - 3/22 – MRC
  
- **Effective Date**
  - March 31, 2018



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- [TOP-010-1\(i\) R1](#)
  - Each Transmission Operator shall implement an Operating Process or Operating Procedure to address the quality of the Real-time data necessary to perform its Realtime monitoring and Real-time Assessments. The Operating Process or Operating Procedure shall include:
    - 1.1. Criteria for evaluating the quality of Real-time data;
    - 1.2. Provisions to indicate the quality of Real-time data to the System Operator; and
    - 1.3. Actions to address Real-time data quality issues with the entity(ies) responsible for providing the data when data quality affects Real-time Assessments.

- [TOP-010-1\(i\) R4](#)
  - Each Transmission Operator and Balancing Authority shall have an alarm process monitor that provides notification(s) to its System Operators when a failure of its Real-time monitoring alarm processor has occurred.