

**A. Introduction**

1. **Title:**           **Monitoring System Conditions**
2. **Number:**       TOP-006-0
3. **Purpose:**  
To ensure critical reliability parameters are monitored in real-time.
4. **Applicability**
  - 4.1. Transmission Operators.
  - 4.2. Balancing Authorities.
  - 4.3. Generator Operators.
  - 4.4. Reliability Coordinators.
5. **Effective Date:**                   April 1, 2005

**B. Requirements**

- R1.** Each Transmission Operator and Balancing Authority shall know the status of all generation and transmission resources available for use.
  - R1.1.** Each Generator Operator shall inform its Host Balancing Authority and the Transmission Operator of all generation resources available for use.
  - R1.2.** Each Transmission Operator and Balancing Authority shall inform the Reliability Coordinator and other affected Balancing Authorities and Transmission Operators of all generation and transmission resources available for use.
- R2.** Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall monitor applicable transmission line status, real and reactive power flows, voltage, load-tap-changer settings, and status of rotating and static reactive resources.
- R3.** Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall provide appropriate technical information concerning protective relays to their operating personnel.
- R4.** Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall have information, including weather forecasts and past load patterns, available to predict the system's near-term load pattern.
- R5.** Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall use monitoring equipment to bring to the attention of operating personnel important deviations in operating conditions and to indicate, if appropriate, the need for corrective action.
- R6.** Each Balancing Authority and Transmission Operator shall use sufficient metering of suitable range, accuracy and sampling rate (if applicable) to ensure accurate and timely monitoring of operating conditions under both normal and emergency situations.
- R7.** Each Reliability Coordinator, Transmission Operator, and Balancing Authority shall monitor system frequency.

**C. Measures**

Not specified.

**D. Compliance**

Not specified.

**E. Regional Differences**

None identified.

**Version History**

<b>Version</b>	<b>Date</b>	<b>Action</b>	<b>Change Tracking</b>
0	April 1, 2005	Effective Date	New
0	August 8, 2005	Removed “Proposed” from Effective Date	Errata