

**Standard Development Roadmap**

*This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.*

**Development Steps Completed:**

1. SAR version 1 posted on May 15, 2007.
2. SAR version 1 comment period closed on June 13, 2007.
3. SAR version 2 posted on August 7, 2007.
4. SAR version 2 comment period closed on September 7, 2007.
5. SAR approved by SC on November 1, 2007.
6. First posting of revised standards on October 7, 2008.

**Proposed Action Plan and Description of Current Draft:**

The SDT began meeting in January 2008 following the approval of the SAR by the SC. The schedule shows completion of the project in 3Q09. The current draft is the second posting of the revised standards. As part of the proposed revisions, TOP-005-1, TOP-006-1, TOP-007-0, TOP-008-0, and PER-001-0 will be retired. The requirements in those standards have been eliminated or moved to other standards within this project. Some changes made in this project are dependent on corresponding changes to Project 2006-06, Reliability Coordination, being approved.

**Future Development Plan:**

<b>Anticipated Actions</b>	<b>Anticipated Date</b>
1. Post for ballot.	July 2009
2. Post for re-ballot.	September 2009
3. Submit to BOT.	September 2009
4. Submit to governmental authorities.	October 2009

**Definitions of Terms Used in Standard**

*This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.*

**There are no new or revised definitions proposed in this standard revision.**

## A. Introduction

1. **Title:** **Real-time Transmission Operations**
2. **Number:** TOP-004-3
3. **Purpose:** To ensure that Transmission Operators act to preserve the reliability of the Bulk Electric System in Real-time.
4. **Applicability:**
  - 4.1. Transmission Operators.
5. **Proposed Effective Date:** All requirements will become effective the first day of the first calendar quarter twenty-four months following applicable regulatory approval. In those jurisdictions where no regulatory approval is required, the requirements become effective the first day of the first calendar quarter twenty-four months following Board of Trustees adoption.

## B. Requirements

- R1. Each Transmission Operator shall operate within each identified Interconnection Reliability Operating Limit (IROL) and its associated IROL  $T_v$ . [*Violation Risk Factor: High*] [*Time Horizon: Real-time Operations*]
- R2. Each Transmission Operator shall have Agreements with directly interconnected Transmission Operators that specify switching of synchronous BES tie lines. [*Violation Risk Factor: Low*] [*Time Horizon: Operations Planning, Same-day Operations, Real-Time Operations*]

## C. Measures

- M1. Each Transmission Operator shall make available evidence for any occasion in which it has operated outside an identified Interconnection Reliability Operating Limit (IROL) and its associated IROL  $T_v$  as specified in Requirement R1. Such evidence could include but is not limited to dated computer logs or reports in electronic or hard copy format specifying the date, time, duration, and details of the excursion outside of the identified IROL and applicable IROL  $T_v$ .
- M2. Each Transmission Operator shall make available evidence that it has Agreements with directly interconnected Transmission Operators that specify switching of synchronous BES tie lines in accordance with Requirement R2. Such evidence could include but is not limited to a dated document with confirmation of the Agreement, such as a signature page or a memorandum of understanding, in electronic or hard copy format.

## D. Compliance

1. **Compliance Monitoring Process**
  - 1.1. **Compliance Enforcement Authority**  
Regional Entity
  - 1.2. **Compliance Monitoring and Reset Time Frame**  
Not applicable
  - 1.3. **Compliance Monitoring and Enforcement Processes**  
Compliance Audits

Self-Certifications

Spot Checking

Compliance Violation Investigations

Self-Reporting

Complaints

Exception Reporting of any occasion in which it has operated outside an identified IROL and the applicable IROL  $T_v$  as specified in Requirement R1 and Measurement M1.

#### **1.4. Data Retention**

The Transmission Operator shall keep data or evidence to show compliance as identified below unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation:

- The Transmission Operator shall retain evidence for three calendar years of any occasion in which it has operated outside an identified IROL and its associated IROL  $T_v$  as specified in Requirement R1 and Measurement M1.
- The Transmission Operator shall retain evidence that it has current in force Agreements with directly interconnected Transmission Operators that specify switching of synchronous BES tie lines in accordance with Requirement R2 and Measurement M2 as well as any Agreements in force since the last compliance audit.

If a Transmission Operator is found non-compliant, it shall keep information related to the non-compliance until found compliant.

The Compliance Enforcement Authority shall keep the last audit records and all requested and submitted subsequent audit records.

#### **1.5. Additional Compliance Information**

Submit exception reports of each instance of exceeding an IROL for time greater than the associated IROL  $T_v$  to the Compliance Enforcement Authority within thirty calendar days of the event.

2. Violation Severity Levels

R#	Lower	Moderate	High	Severe
<b>R1</b>	N/A	N/A	N/A	The Transmission Operator did not operate within an identified Interconnection Reliability Operating Limit (IROL) and the associated IROL $T_v$ for any single occasion.
<b>R2</b>	The Transmission Operator does not have Agreements with one of its directly interconnected Transmission Operators or 25% or less of its directly interconnected Transmission Operators that address switching of synchronous BES tie lines.	The Transmission Operator does not have Agreements with two of its directly interconnected Transmission Operators or more than 25% and less than or equal to 50% of its directly interconnected Transmission Operators that address switching of synchronous BES tie lines.	The Transmission Operator does not have Agreements with three of its directly interconnected Transmission Operators or more than 50% and less than or equal to 75% of its directly interconnected Transmission Operators that address switching of synchronous BES tie lines.	The Transmission Operator does not have Agreements with four or more of its directly interconnected Transmission Operators or more than 75% of its directly interconnected Transmission Operators that address switching of synchronous BES tie lines.

**E. Regional Variances**

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
1	November 1, 2006	Added language from Missing Measures and Compliance Elements adopted by Board of Trustees on November 1, 2006	Revised
2	December 19, 2007	Revised to reflect merging of both sets of changes approved by BOT on November 1, 2006 (Addition of measures and compliance elements and revisions to R3 and R6 with conforming changes made as errata to Levels of Non-compliance)	Revised Errata
3	TBD	Changes pursuant to Project 2007-03	Revised