

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. SAC approves SAR for posting (March 20, 2002)
2. Drafting Team posts Draft SAR for comment periods (April 2–May 3, 2002) (September 24–October 25, 2002) (December 13–January 31, 2003)
3. SAC approves development of standard (February 27, 2003)
4. JIC assigns development of standard to NERC (March 21, 2003)
5. Drafting Team posts Drafts for comment (July 1–August 29, 2003) (December 1, 2003–January 21, 2004) (February 18–April 3, 2005)
6. Drafting Team posts Implementation Plan for comment June 1–July 15, 2005.
7. Drafting Team ballots standards.

Description of Current Draft:

The Drafting Team is posting FAC-011 for information only.

Future Development Plan:

Anticipated Actions

Anticipated Date

- | | |
|---|------------------------|
| 1. Post consideration of comments on revised definition of 'contingency'. | January 25, 2006 |
| 2. Post standards for 30-day preview | February 1–March 2 |
| 3. First ballot | March 6–15, 2006 |
| 4. Drafting Team considers comments and makes any revisions indicated | March 24, 2006 |
| 5. Recirculation ballot | March 27–April 5, 2006 |
| 6. 30-day posting before board adoption | April 1–30, 2006 |
| 7. Board adopts standard | May 1, 2006 |
| 8. Effective date | January 1, 2007 |

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.

None introduced in this standard.

A. Introduction

1. **Title:** Establish and Communicate System Operating Limits
2. **Number:** FAC-011-1
3. **Purpose:** To ensure that System Operating Limits (SOLs) used in the reliable planning and operation of the Bulk Electric System (BES) are determined based on an established methodology or methodologies.
4. **Applicability**
 - 4.1. Reliability Coordinator
 - 4.2. Planning Authority
 - 4.3. Transmission Planner
 - 4.4. Transmission Operator
5. **Proposed Effective Date:** January 1, 2007

B. Requirements

- R1. The Reliability Coordinator shall ensure that SOLs, including Interconnection Reliability Operating Limits (IROLs), for its Reliability Coordinator Area are established and that the SOLs (including Interconnection Reliability Operating Limits) are consistent with its SOL Methodology.
- R2. The Transmission Operator shall establish SOLs (as directed by its Reliability Coordinator) for its portion of the Reliability Coordinator Area that are consistent with its Reliability Coordinator's SOL Methodology.
- R3. The Planning Authority shall establish SOLs, including IROLs, for its Planning Authority Area that are consistent with its SOL Methodology.
- R4. The Transmission Planner shall establish SOLs, including IROLs, for its Transmission Planning Area that are consistent with its Planning Authority's SOL Methodology.
- R5. The Reliability Coordinator, Planning Authority and Transmission Planner shall each provide its SOLs and IROLs to those entities that have a reliability-related need for those limits and provide a written request that includes a schedule for delivery of those limits as follows:
 - R5.1 The Reliability Coordinator shall provide its SOLs (including the subset of SOLs that are IROLs) to adjacent Reliability Coordinators and Reliability Coordinators who indicate a reliability-related need for those limits, and to the Transmission Operators, Transmission Planners, Transmission Service Providers and Planning Authorities within its Reliability Coordinator Area. For each IROL, the Reliability Coordinator shall provide the following supporting information:
 - R5.1.1 Identification and status of the associated Facility (or group of Facilities) that is (are) critical to the derivation of the IROL.
 - R5.1.2 The value of the IROL and its associated T_v .
 - R5.1.3 The associated Contingency(ies).
 - R5.1.4 The type of limitation represented by the IROL (e.g., voltage collapse, angular stability).

- R5.2** The Transmission Operator shall provide any SOLs it developed to its Reliability Coordinator and to the Transmission Service Providers that share its portion of the Reliability Coordinator Area.
- R5.3** The Planning Authority shall provide its SOLs (including the subset of SOLs that are IROLs) to adjacent Planning Authorities, and to Transmission Planners, Transmission Service Providers, Transmission Operators and Reliability Coordinators that work within its Planning Authority Area.
- R5.4** The Transmission Planner shall provide its SOLs (including the subset of SOLs that are IROLs) to its Planning Authority, Reliability Coordinators, Transmission Operators, and Transmission Service Providers that work within its Transmission Planning Area and to adjacent Transmission Planners.

C. Measures

- M1.** The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each be able to demonstrate that it developed its SOLs (including the subset of SOLs that are IROLs) consistent with the applicable SOL Methodology.
- M2.** The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each have evidence that its SOLs (including the subset of SOLs that are IROLs) were supplied in accordance with schedules supplied by the requestors of such SOLs.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization

1.2. Compliance Monitoring Period and Reset Timeframe

The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each verify compliance through self-certification submitted to its Compliance Monitor annually. The Compliance Monitor may conduct a targeted audit once in each calendar year (January – December) and an investigation upon a complaint to assess performance.

The Performance-Reset Period shall be twelve months from the last finding of non-compliance.

1.3. Data Retention

The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each keep documentation for 12 months. In addition, entities found non-compliant shall keep information related to non-compliance until found compliant.

The Compliance Monitor shall keep the last audit and all subsequent compliance records.

1.4. Additional Compliance Information

The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each make the following available for inspection during a targeted audit by the Compliance Monitor or within 15 business days of a request as part of an investigation upon complaint:

1.4.1 SOL Methodology(ies)

1.4.2 SOLs, including the subset of SOLs that are IROLs and the IROL's supporting information

1.4.3 Evidence that SOLs were distributed

1.4.4 Distribution schedules provided by entities that requested SOLs

2. Levels of Non-Compliance

2.1. Level 1: Not applicable.

2.2. Level 2: Not all SOLs were provided in accordance with their respective schedules.

2.3. Level 3: SOLs provided were not developed consistent with the SOL Methodology.

2.4. Level 4: No SOLs were provided in accordance with their respective schedules.

E. Regional Differences

None identified

Version History

Version	Date	Action	Change Tracking