

A. Introduction

- 1. Title:** Reporting System Operating Limit (SOL) and Interconnection Reliability Operating Limit (IROL) Violations
- 2. Number:** TOP-007-0
- 3. Purpose:**
This standard ensures SOL and IROL violations are being reported to the Reliability Coordinator so that the Reliability Coordinator may evaluate actions being taken and direct additional corrective actions as needed.
- 4. Applicability:**
 - 4.1.** Transmission Operators.
 - 4.2.** Reliability Coordinators.
- 5. Effective Date:** April 1, 2005

B. Requirements

- R1.** A Transmission Operator shall inform its Reliability Coordinator when an IROL or SOL has been exceeded and the actions being taken to return the system to within limits.
- R2.** Following a Contingency or other event that results in an IROL violation, the Transmission Operator shall return its transmission system to within IROL as soon as possible, but not longer than 30 minutes.
- R3.** A Transmission Operator shall take all appropriate actions up to and including shedding firm load, or directing the shedding of firm load, in order to comply with Requirement R2.
- R4.** The Reliability Coordinator shall evaluate actions taken to address an IROL or SOL violation and, if the actions taken are not appropriate or sufficient, direct actions required to return the system to within limits.

C. Measures

- M1.** Evidence that the Transmission Operator informed the Reliability Coordinator when an IROL or SOL was exceeded and the actions taken to return the system to within limits.
- M2.** Evidence that the Transmission Operator returned the system to within IROL within 30 minutes for each incident that an IROL, or SOL that became an IROL due to changed system conditions, was exceeded.
- M3.** Evidence that the Reliability Coordinator evaluated actions and provided direction required to return the system to within limits.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

The Reliability Coordinator shall report any IROL violation exceeding 30 minutes to the Regional Reliability Organization and NERC within 72 hours. Each Regional Reliability Organization shall report any such violations to NERC via the NERC compliance reporting process. The Reliability Coordinator shall report any SOL violation that has become an IROL violation because of changed system conditions; i.e. exceeding the limit will require action to prevent:

Standard TOP-007-0 — Reporting SOL and IROL Violations

- 1.1.1. System instability.
- 1.1.2. Unacceptable system dynamic response or equipment tripping.
- 1.1.3. Voltage levels in violation of applicable emergency limits.
- 1.1.4. Loadings on transmission facilities in violation of applicable emergency limits.
- 1.1.5. Unacceptable loss of load based on regional and/or NERC criteria.
- 1.2. **Compliance Monitoring Period and Reset Timeframe**
The reset period is monthly.
- 1.3. **Data Retention**
The data retention period is three months.
- 2. **Levels of Non-Compliance**
 - 2.1. The Transmission Operator did not inform the Reliability Coordinator of an IROL or an SOL that has become an IROL because of changed system conditions, and the actions they are taking to return the system to within limits, or
 - 2.2. The Transmission Operator did not take corrective actions as directed by the Reliability Coordinator to return the system to within the IROL within 30 minutes. (See Table 1-TOP-007-0 below.)
 - 2.3. The limit violation was reported to the Reliability Coordinator, who did not provide appropriate direction to the Transmission Operator, resulting in an IROL violation in excess of 30 minutes duration.

Table 1-TOP-007-0 IROL and SOL Reporting Levels of Non-Compliance

Percentage by which IROL or SOL that has become an IROL is exceeded*	Limit exceeded for more than 30 minutes, up to 35 minutes.	Limit exceeded for more than 35 minutes, up to 40 minutes.	Limit exceeded for more than 40 minutes, up to 45 minutes.	Limit exceeded for more than 45 minutes.
Greater than 0%, up to and including 5%	Level 1	Level 2	Level 2	Level 3
Greater than 5%, up to and including 10%	Level 2	Level 2	Level 3	Level 3
Greater than 10%, up to and including 15%	Level 2	Level 3	Level 3	Level 4
Greater than 15%, up to and including 20%	Level 3	Level 3	Level 4	Level 4
Greater than 20%, up to and including 25%	Level 3	Level 4	Level 4	Level 4
Greater than 25%	Level 4	Level 4	Level 4	Level 4

*Percentage used in the left column is the flow measured at the end of the time period (30, 35, 40, or 45 minutes).

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E. Regional Differences

None identified.

Version History

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

Standard TOP-007-0 — Reporting SOL and IROL Violations

Appendix QC-TOP-007-0 Provisions specific to the standard TOP-007-0 applicable in Québec

This appendix establishes specific provisions for the application of the standard in Québec. Provisions of the standard and of its appendix must be read together for the purposes of understanding and interpretation. Where the standard and appendix differ, the appendix shall prevail.

A. Introduction

1. **Title:** Reporting SOL and IROL Violations

2. **Number:** TOP-007-0

3. **Purpose:** No specific provision

4. **Applicability:**

Functions

No specific provision

Facilities

This standard only applies to the facilities of the Main Transmission System (RTP).

5. **Effective Date:**

5.1. Adoption of the standard by the Régie de l'énergie: October 30, 2013

5.2. Adoption of the appendix by the Régie de l'énergie: October 30, 2013

5.3. Effective date of the standard and its appendix in Québec: April 1, 2015

B. Requirements

No specific provision

C. Measures

No specific provision

D. Compliance

1. **Compliance Monitoring Process**

1.1. **Compliance Monitoring Responsibility**

The Régie de l'énergie is responsible, in Québec, for compliance monitoring with respect to the reliability standard and its appendix that it adopts.

1.2. **Compliance Monitoring Period and Reset Timeframe**

No specific provision

1.3. **Data Retention**

No specific provision

1.4. **Additional Compliance Information**

No specific provision

2. **Levels of Non-Compliance**

No specific provision

Standard TOP-007-0 — Reporting SOL and IROL Violations

Appendix QC-TOP-007-0

Provisions specific to the standard TOP-007-0 applicable in Québec

Table 1-TOP-007-0

No specific provision

E. Regional Differences

No specific provision

Revision History

Revision	Adoption Date	Action	Change Tracking
0	October 30, 2013	New appendix	New