

## **A. Introduction**

- 1. Title:**           **Procedures, Processes, or Plans to Support Coordination Between Reliability Coordinators**
- 2. Number:**       **IRO-014-1**
- 3. Purpose:**       To ensure that each Reliability Coordinator's operations are coordinated such that they will not have an Adverse Reliability Impact on other Reliability Coordinator Areas and to preserve the reliability benefits of interconnected operations.
- 4. Applicability**
  - 4.1.** Reliability Coordinator
- 5. Effective Date:**       November 1, 2006

## **B. Requirements**

- R1.** The Reliability Coordinator shall have Operating Procedures, Processes, or Plans in place for activities that require notification, exchange of information or coordination of actions with one or more other Reliability Coordinators to support Interconnection reliability. These Operating Procedures, Processes, or Plans shall address Scenarios that affect other Reliability Coordinator Areas as well as those developed in coordination with other Reliability Coordinators.
  - R1.1.** These Operating Procedures, Processes, or Plans shall collectively address, as a minimum, the following:
    - R1.1.1.** Communications and notifications, including the conditions<sup>1</sup> under which one Reliability Coordinator notifies other Reliability Coordinators; the process to follow in making those notifications; and the data and information to be exchanged with other Reliability Coordinators.
    - R1.1.2.** Energy and capacity shortages.
    - R1.1.3.** Planned or unplanned outage information.
    - R1.1.4.** Voltage control, including the coordination of reactive resources for voltage control.
    - R1.1.5.** Coordination of information exchange to support reliability assessments.
    - R1.1.6.** Authority to act to prevent and mitigate instances of causing Adverse Reliability Impacts to other Reliability Coordinator Areas.
- R2.** Each Reliability Coordinator's Operating Procedure, Process, or Plan that requires one or more other Reliability Coordinators to take action (e.g., make notifications, exchange information, or coordinate actions) shall be:
  - R2.1.** Agreed to by all the Reliability Coordinators required to take the indicated action(s).
  - R2.2.** Distributed to all Reliability Coordinators that are required to take the indicated action(s).

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<sup>1</sup> Examples of conditions when one Reliability Coordinator may need to notify another Reliability Coordinator may include (but aren't limited to) sabotage events, Interconnection Reliability Operating Limit violations, voltage reductions, insufficient resources, arming of special protection systems, etc.

- R3.** A Reliability Coordinator's Operating Procedures, Processes, or Plans developed to support a Reliability Coordinator-to-Reliability Coordinator Operating Procedure, Process, or Plan shall include:
  - R3.1.** A reference to the associated Reliability Coordinator-to-Reliability Coordinator Operating Procedure, Process, or Plan.
  - R3.2.** The agreed-upon actions from the associated Reliability Coordinator-to-Reliability Coordinator Operating Procedure, Process, or Plan.
- R4.** Each of the Operating Procedures, Processes, and Plans addressed in Reliability Standard IRO-014 Requirement 1 and Requirement 3 shall:
  - R4.1.** Include version control number or date.
  - R4.2.** Include a distribution list.
  - R4.3.** Be reviewed, at least once every three years, and updated if needed.

### **C. Measures**

- M1.** The Reliability Coordinator's System Operators shall have available for Real-time use, the latest approved version of Operating Procedures, Processes, or Plans that require notifications, information exchange or the coordination of actions between Reliability Coordinators.
  - M1.1** These Operating Procedures, Processes, or Plans shall address:
    - M1.1.1** Communications and notifications, including the conditions under which one Reliability Coordinator notifies other Reliability Coordinators; the process to follow in making those notifications; and the data and information to be exchanged with other Reliability Coordinators.
    - M1.1.2** Energy and capacity shortages.
    - M1.1.3** Planned or unplanned outage information.
    - M1.1.4** Voltage control, including the coordination of reactive resources for voltage control.
    - M1.1.5** Coordination of information exchange to support reliability assessments.
    - M1.1.6** Authority to act to prevent and mitigate instances of causing Adverse Reliability Impacts to other Reliability Coordinator Areas.
- M2.** The Reliability Coordinator shall have evidence that these Operating Procedures, Processes, or Plans were:
  - M2.1** Agreed to by all the Reliability Coordinators required to take the indicated action(s).
  - M2.2** Distributed to all Reliability Coordinators that are required to take the indicated action(s).
- M3.** The Reliability Coordinator's Operating Procedures, Processes, or Plans developed (for its System Operators' internal use) to support a Reliability Coordinator-to-Reliability Coordinator Operating Procedure, Process, or Plan received from another Reliability Coordinator shall:
  - M3.1** Be available to the Reliability Coordinator's System Operators for Real-time use,
  - M3.2** Include a reference to the associated source document, and
  - M3.3** Support the agreed-upon actions from the source document.

- M4.** The Reliability Coordinator’s Operating Procedures, Processes, or Plans that addresses Reliability Coordinator-to-Reliability Coordinator coordination shall each include a version control number or date and a distribution list. The Reliability Coordinator shall have evidence that these Operating Procedures, Processes, or Plans were reviewed within the last three years.

## **D. Compliance**

### **1. Compliance Monitoring Process**

#### **1.1. Compliance Monitoring Responsibility**

Regional Reliability Organization

#### **1.2. Compliance Monitoring Period and Reset Time Frame**

The Performance-Reset Period shall be one calendar year.

#### **1.3. Data Retention**

The Reliability Coordinator shall keep documentation for the prior calendar year and the current calendar year. The Compliance Monitor shall keep compliance data for a minimum of three years or until the Reliability Coordinator has achieved full compliance, whichever is longer.

#### **1.4. Additional Compliance Information**

The Reliability Coordinator shall demonstrate compliance through self-certification submitted to its Compliance Monitor annually. The Compliance Monitor shall also use a scheduled on-site review at least once every three years and investigations upon complaint. The Compliance Monitor shall conduct an investigation upon a complaint within 30 days of the alleged infraction’s discovery date. The Compliance Monitor shall complete the investigation within 45 days after the start of the investigation. As part of an audit or investigation, the Compliance Monitor shall interview other Reliability Coordinators to identify Operating Procedures, Processes or Plans that were distributed to the Reliability Coordinator being audited to verify that these documents are available for Real-time use by the receiving Reliability Coordinator’s System Operators.

The Reliability Coordinator shall have the following documents available for inspection during an on-site audit or within five business days of a request as part of an investigation upon a complaint:

**1.4.1** The latest version of its Operating Procedures, Processes, or Plans that require notification, exchange of information, or coordination of actions with one or more other Reliability Coordinators to support Interconnection reliability.

**1.4.2** Evidence of distribution of Operating Procedures, Processes, or Plans.

### **2. Levels of Non-Compliance**

**2.1. Level 1:** There shall be a level one non-compliance if either of the following conditions is present:

**2.1.1** The latest versions of Operating Procedures, Processes, or Plans (identified through self-certification) that require notification, exchange of information, or coordination of actions with one or more other Reliability Coordinators to support Interconnection reliability do not include a version control number or date, and a distribution list.

**2.1.2** The latest versions of Reliability Coordinator internal documents developed to support action(s) required as a result of other Reliability Coordinators do not include

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both a reference to the source Operating Procedure, Process, or Plan and the agreed-upon actions from the source Operating Procedure, Process, or Plan.

- 2.2. Level 2:** There shall be a level two non-compliance if any of the following conditions is present:
  - 2.2.1** Documents required by this standard were not distributed to all entities on the distribution list.
  - 2.2.2** Documents required by this standard were not available for System Operators’ Real-time use.
  - 2.2.3** Documents required by this standard do not address all required topics.
- 2.3. Level 3:** Documents required by this standard do not address any of the six required topics in Reliability Standard IRO-014 R1.
- 2.4. Level 4:** Not Applicable.

**E. Regional Differences**

None Identified.

**Version History**

Version	Date	Action	Change Tracking
Version 1	08/10/05	1. Changed incorrect use of certain hyphens (-) to “en dash (–).” 2. Hyphenated “30-day” when used as adjective. 3. Changed standard header to be consistent with standard “Title.” 4. Initial capped heading “Definitions of Terms Used in Standard.” 5. Added “periods” to items where appropriate. 6. Changed “Timeframe” to “Time Frame” in item D, 1.2. 7. Lower cased all words that are not “defined” terms — drafting team, self-certification. 8. Changed apostrophes to “smart” symbols. 9. Added comma in all word strings “Procedures, Processes, or Plans,” etc. 10. Added hyphens to “Reliability Coordinator-to-Reliability Coordinator” where used as adjective. 11. Removed comma in item 2.1.2. 12. Removed extra spaces between words where appropriate.	01/20/06

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## Appendix QC-IRO-014-1 Provisions specific to the standard IRO-014-1 applicable in Québec

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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:** Procedures, Processes, or Plans to Support Coordination Between Reliability Coordinators
2. **Number:** IRO-014-1
3. **Purpose:** No specific provision
4. **Applicability:** No specific provision
5. **Effective Date:**
  - 5.1. Adoption of the standard by the Régie de l'énergie: October 30, 2014
  - 5.2. Adoption of the appendix by the Régie de l'énergie: October 30, 2014
  - 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 Time Frame

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

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Between Reliability Coordinators**

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Provisions specific to the standard IRO-014-1 applicable in Québec**

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**E. Regional Differences**

No specific provision

**Revision History**

<b>Revision</b>	<b>Adoption Date</b>	<b>Action</b>	<b>Change Tracking</b>
0	October 30, 2013	New appendix	New