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## Project QC-2017-02

### Standard PRC-004-5(i) – Protection System Misoperation Identification and Correction

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#### 1. ASSESSMENT OF RELEVANCE

The purpose of Standard PRC-004-5(i) is to ensure that protective system misoperations are identified and corrected.

Standard PRC-004-5(i) addresses protection systems that trip BES interrupting devices. Performance is initiated when a BES interrupting device automatically trips or is manually tripped due to a Protection System failure to operate.

In its decisions [D-2017-015](#) and [D-2017-076](#), the Régie has requested the assessment of the scope of application of PRC standards. Upon completion of phase 1 of the public consultation of entities, the Coordinator decided to extend the scope of application of this standard to the Main Transmission System (RTP).

Scope of application (phase 1): Extending the scope of application to the RTP was previously addressed during public consultation, i.e., during phase 1 of this project. The Reliability Coordinator concluded that extending the scope of application of the standard to the RTP was relevant for the reliability of the Québec interconnection.

Content of the standard (phase 2): For phase 2 of the public consultation, the Coordinator is seeking comments from the covered entities on the impact and the relevance of Standard PRC-004-5(i), including the proposed effective date.

#### 2. PREREQUISITE FOR PUTTING THE STANDARD INTO EFFECT

None.

#### 3. MODIFICATIONS TO OTHER STANDARDS OR TO GLOSSARY DEFINITIONS

##### 3.1. Standards or requirements to be retired upon enforcement:

Standard PRC-004-5(i) is currently effective and applicable to the BPS. This revision of the standard will be applicable to the RTP and will replace the version currently in force.

##### 3.2. New definitions to be added to the glossary:

None.

##### 3.3. Definitions to be modified in the glossary:

None.

##### 3.4. Definitions to be retired from the glossary:

None.

#### 4. APPLICABILITY

Functions covered:

- Transmission Owner (TO)
- Generator Owner (GO)
- Distribution Provider (DP)

#### 5. PROVISIONS SPECIFIC TO QUÉBEC

Standard PRC-004-5(i) applies to the protection systems of the Main Transmission System (RTP). A special provision was used to replace inclusion I4 of the BES definition with the term Dispersed Power Producing Resources.

#### 6. PROPOSED EFFECTIVE DATES

Although Standard PRC-004-5(i) is already enforceable, the Coordinator proposes a new version of the Québec appendix. The Coordinator proposes January 1, 2019, as the effective date for the new version of the standard and its Québec appendix. However, the Coordinator proposes October 1, 2020, as the implementation date for non-BPS RTP facilities.

#### 7. PRELIMINARY ASSESSMENT OF THE IMPACT

| PRC-004-5(i)                   | Low | Moderate | High |
|--------------------------------|-----|----------|------|
| Implementation of the standard |     | <b>X</b> |      |
| Enforcement of the standard    |     | <b>X</b> |      |
| Compliance monitoring          |     | <b>X</b> |      |

**Legend:**

|                   |  |
|-------------------|--|
| <b>Low:</b>       | Normal industry practice that requires only minor adjustments to processes or practices in place.  |
| <b>Moderate:</b>  | Change that requires the allocation of some physical, human or financial resources to implement, enforce and monitor the compliance of the proposed standard.                                    |
| <b>Important:</b> | Change that requires the allocation of substantial physical, human or financial resources to plan and deploy the implementation, enforcement and compliance monitoring of the proposed standard. |

#### 8. FINAL IMPACT ASSESSMENT

This section shall be completed upon receipt of the impact assessment forms and at the conclusion of the consultation process prior to filing the reliability standards with the Régie de l'énergie.