

Appendix PRC-024-4-QC-1

Specific provisions applicable in Québec for standard

PRC-024-4 – Frequency and Voltage Protection Settings for Synchronous Generators, Type 1 and Type 2 Wind Resources, and Synchronous Condensers

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

A. Introduction

1. **Title:** No specific provisions.
2. **Number:** No specific provisions.
3. **Purpose:** No specific provisions.
4. **Applicability:** In the application of this standard, all reference to the term “Bulk Electric System” or “BES” shall be replaced by the terms “Main Transmission System” or “RTP” respectively.

4.1. Functional Entities

No specific provisions.

4.2. Facilities

No specific provisions.

5. Effective date:

- | | | |
|-------------|--|----------------|
| 5.1. | Adoption of the standard by the Régie de l'énergie: | Month XX, 202X |
| 5.2. | Adoption of this appendix by the Régie de l'énergie: | Month XX, 202X |
| 5.3. | Effective date of the standard and of this appendix in Québec: | Month XX, 202X |

For Facilities subject to PRC-024-3, the requirements will be implemented on the following dates:

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Requirements	Applicability	Implementation dates in Québec
All requirements (R1 to R4, D.A.5) except requirement D.A.2	100% of its applicable Facilities	July 1, 2025
D.A.2	At least 50% of its applicable Facilities	July 1, 2025
	At least 70% of its applicable Facilities	July 1, 2027
	100% of its applicable Facilities	July 1, 2030

For Facilities subject to PRC-024-4, the requirements will be implemented on the following dates:

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Requirements	Applicability	Implementation dates in Québec
Synchronous Condensers		
All requirements (R1 to R4, D.A.5) except requirement D.A.2	100% of its applicable Facilities	The first day of the first calendar quarter occurring 12 calendar months following the implementation of the PRC-024-4 standard by the Régie.
D.A.2	100% of its applicable Facilities	The first day of the first calendar quarter occurring 36 calendar months following the implementation of the PRC-024-4 standard by the Régie.
Synchronous Generators and Type1 and Type 2 Wind Resources		
All requirements (R1 to R4, D.A.5) except requirement D.A.2	100% of its applicable Facilities	The first day of the first calendar quarter occurring 12 calendar months following the implementation of the PRC-024-4 standard by the Régie.
D.A.2	At least 50% of its applicable Facilities	The first day of the first calendar quarter occurring 12 calendar months following the implementation of the PRC-024-4 standard by the Régie.
	At least 70% of its applicable Facilities	The first day of the first calendar quarter occurring 36 calendar months following the implementation of the PRC-024-4 standard by the Régie.
	100% of its applicable Facilities	The first day of the first calendar quarter occurring 60 calendar months following the implementation of the PRC-024-4 standard by the Régie.

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B. Requirements and Measures

Specific provision regarding Requirement R1: Thermal generating stations, as well as generating stations equipped with asynchronous generators, shall adhere to the curves in Appendix 1, as specified by Requirement R1, except that they may be tripped at a frequency of ≥ 61.7 Hz.

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

In Québec, “Compliance Enforcement Authority” means the Régie de l’énergie in its roles of monitoring and enforcing compliance with respect to the Reliability Standard and to this appendix.

1.2. Evidence Retention

No specific provisions.

1.3. Compliance Monitoring and Assessment Program

The Régie de l’énergie establishes the monitoring processes used to evaluate data or information for the purpose of determining compliance or non-compliance with the Reliability Standard and with this appendix.

Violation Severity Levels

No specific provisions.

D. Regional Variances

No specific provisions.

Violation Severity Levels

No specific provisions.

E. Associated Documents

No specific provisions.

PRC-024 — Attachment 1

No specific provisions.

PRC-024-2 — Attachment 2

No specific provisions.

PRC-024 – Attachment 2A

Specific provision regarding boundary details:

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It is acceptable to use a measurement of the Root Mean Square (RMS) value of the overvoltage or undervoltage (phase-to-phase or phase-to-ground) provided that the trip associated with these protections occurs only when this overvoltage or undervoltage is present simultaneously on the three phases.

Version history

Version	Date	Action	Change tracking
1	Month XX, 202x	New appendix as per decision D-2XXX-XXX	New