

**Appendix PRC-006-5-QC-1**  
**Specific provisions applicable to Standard PRC-006-5**  
**PRC-006-5 — Automatic Underfrequency Load Shedding**

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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 provision
2. **Number:** No specific provision
3. **Purpose:** No specific provision
4. **Applicability:**

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: 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

**IMPLEMENTATION PLAN FOR PRC-006-5 STANDARD**

Requirement	Implementation date in Québec
R1 to R2, D.A.3, D.A.4.3, R5 to R15	Month xx, 202x
D.A.4.1 and D.A.4.2	The first day of the first calendar quarter one year following the availability of protection system settings provided by the Generator Owners as per PRC-024-2 and its Québec appendix.

**B. Requirements and Measures**

No specific provision

**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 provision

1.3. **Compliance Monitoring and Assessment Processes**

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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.

**1.4. Additional Compliance Information**

No specific provision

**2. Violation Severity Levels**

No specific provision

**D. Regional Variances**

No specific provision

**D.A. Regional Variance for the Québec Interconnection**

No specific provision

**D.B. Regional Variance for the Western Electricity Coordinating Council**

**E. Associated Documents**

No specific provision

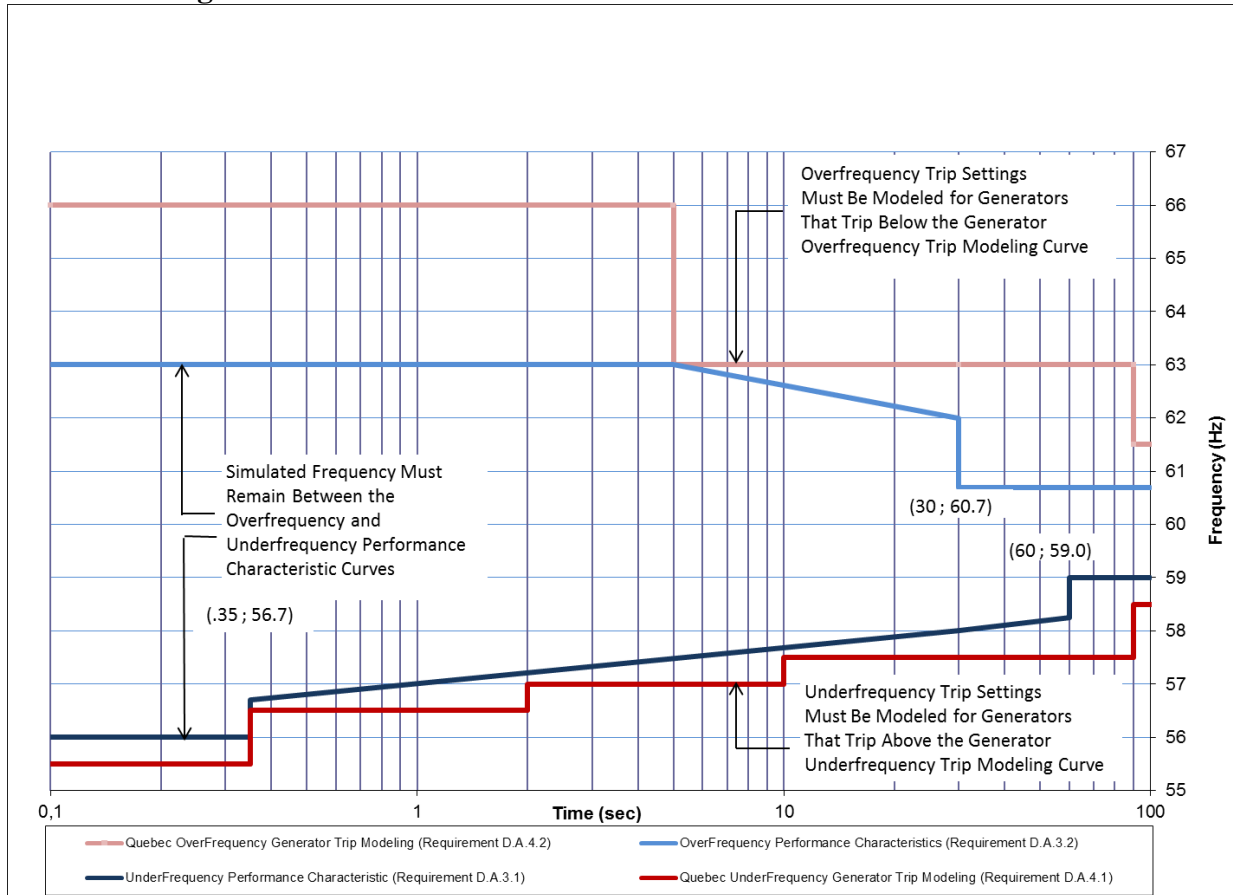
**PRC-006-5 – Attachment 1**

No specific provision

**PRC-006-5 – Attachment 1A (Québec)**

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**PRC-006-5 Attachment 1A (Québec)**  
**UnderFrequency Load Shedding Program**  
**Design Performance and Modeling Curves for**  
**Regional Variances D.A.3.1-D.A.3.3 and D.A.4 Parts D.A.4.1-D.A.4.3**



**Curve Definitions**

Generator Overfrequency Trip Modeling			Overfrequency Performance Characteristic		
$t \leq 5 \text{ s}$	$t \leq 90 \text{ s}$	$t > 90 \text{ s}$	$t \leq 5 \text{ s}$	$5 \text{ s} < t \leq 30 \text{ s}$	$t > 30 \text{ s}$
$f = 66 \text{ Hz}$	$f = 63 \text{ Hz}$	$f = 61.5 \text{ Hz}$	$f = 63 \text{ Hz}$	$f = -1.29 \log(t) + 63.90 \text{ Hz}$	$f = 60.7 \text{ Hz}$

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Generator Underfrequency Trip Modeling					Underfrequency Performance Characteristic		
$t \leq 0.35 \text{ s}$	$t \leq 2 \text{ s}$	$t \leq 10 \text{ s}$	$t \leq 90 \text{ s}$	$t > 90 \text{ s}$	$t \leq 0.35 \text{ s}$	$0.35 \text{ s} < t \leq 60 \text{ s}$	$t > 60 \text{ s}$
$f = 55.5 \text{ Hz}$	$f = 56.5 \text{ Hz}$	$f = 57.0 \text{ Hz}$	$f = 57.5 \text{ Hz}$	$f = 58.5 \text{ Hz}$	$f = 56.0 \text{ Hz}$	$f = 0.72 \log(t) + 57.03 \text{ Hz}$	$f = 59 \text{ Hz}$

**Version history**

Version	Date	Action	Change Tracking
1	Month xx, 202x	New appendix as per decision D-xxxx-yyyy	New