

NB Appendix
PRC-024-1-NB-0 - Generator Frequency and Voltage Protective Relay Settings

This appendix establishes modifications to the FERC approved NERC standard PRC-024-1 for its specific application in New Brunswick. This appendix must be read with PRC-024-1 to determine a full understanding of the requirements of the standard for New Brunswick. Where the standard and appendix differ, the appendix shall prevail.

A. Introduction

- 1. Title: Generator Frequency and Voltage Protective Relay Settings**
- 2. Number: PRC-024-1**
- 3. Purpose: No New Brunswick modifications**
- 4. Applicability:**
 - 4.1. No New Brunswick modifications**
- 5. Effective Date:**
 - 5.1. No New Brunswick modifications**
 - 5.1.1 No New Brunswick modifications**
 - 5.1.2 No New Brunswick modifications**
 - 5.1.3 No New Brunswick modifications**
 - 5.1.4 No New Brunswick modifications**
 - 5.2. No New Brunswick modifications**
 - 5.2.1 No New Brunswick modifications**
 - 5.2.2 No New Brunswick modifications**
 - 5.2.3 No New Brunswick modifications**
 - 5.2.4 No New Brunswick modifications**

B. Requirements

- R1. No New Brunswick modifications**
- R2. No New Brunswick modifications**
- R3. No New Brunswick modifications**
 - 3.1. No New Brunswick modifications**
- R4. No New Brunswick modifications**

C. Measures

- M1. No New Brunswick modifications**
- M2. No New Brunswick modifications**

NB Appendix
PRC-024-1-NB-0 - Generator Frequency and Voltage Protective Relay Settings

M3. No New Brunswick modifications

M4. No New Brunswick modifications

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

The New Brunswick Energy and Utilities Board shall serve as the Compliance Enforcement Authority (CEA).

1.2. Data Retention

No New Brunswick modifications

1.3. Compliance Monitoring and Assessment Processes

No New Brunswick modifications

1.4. Additional Compliance Information

No New Brunswick modifications

2. Violation Severity Levels

R #	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	No New Brunswick modifications			
R2				
R3				
R4				

E. Regional Variances

No New Brunswick modifications

F. Associated Documents

No New Brunswick modifications

NB Appendix
PRC-024-1-NB-0 - Generator Frequency and Voltage Protective Relay Settings

Version History (maintained by NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
0	11/12/14	01/01/17	1. Bulk Electric System(BES)replaced with "Bulk power system" throughout 2. Revised Section D to clarify the NBEUB as the entity having the compliance enforcement authority for NB	Approved Under NBEUB Matter 257 Effective dates: R1, R2, R3 and R4 * See Implementation Plan Timelines below

***Implementation Plan Timelines for R1, R2, R3 and R4**

% Verified	By
40%	01/01/17
60%	01/01/18
80%	01/01/19
100%	01/01/20

G. References

No New Brunswick modifications

PRC-024 – Attachment 1

No New Brunswick modifications

PRC-024– Attachment 2

No New Brunswick modifications

Voltage Ride-Through Curve Clarifications

Curve Details:

1. The per unit voltage base for these curves is the nominal operating voltage specified by the Transmission Planner in the analysis of the reliability of the Interconnected Transmission Systems at the point of interconnection to the bulk power system.
2. No New Brunswick modifications
3. The envelope within the curves represents the cumulative voltage duration at the point of interconnection with the bulk power system. For example, if the voltage first exceeds 1.15 pu at 0.3 seconds after a fault, does not exceed 1.2 pu voltage, and returns below 1.15 pu at 0.4 seconds, then the cumulative time the voltage is above 1.15 pu voltage is 0.1 seconds and is within the no trip zone of the curve.
4. No New Brunswick modifications
5. No New Brunswick modifications

Evaluating Protective Relay Settings:

No New Brunswick modifications