

This appendix establishes modifications to the FERC approved NERC standard PRC-006-NPCC-2 for its specific application in New Brunswick. This appendix must be read with PRC-006-NPCC-2 to determine a full understanding of the requirements of the standard for New Brunswick. Where the standard and appendix differ, the appendix shall prevail.

For the purpose of this standard:

- the term "Bulk Electric System" and its acronym, "BES", shall mean the "bulk power system" as defined in the New Brunswick *Reliability Standards Regulation - Electricity Act*; and
- the term "Planning Coordinator" shall mean "Planning Authority".

A. Introduction

- 1. Title:** Automatic Underfrequency Load Shedding
- 2. Number:** PRC-006-NPCC-2
- 3. Purpose:** The NPCC Automatic Underfrequency Load Shedding (UFLS) regional Reliability Standard establishes more stringent and specific NPCC UFLS program requirements than the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2. The program is designed such that declining frequency is arrested and recovered in accordance with established NPCC performance requirements stipulated in this document.
- 4. Applicability:**
 - 4.1. Functional Entities:**
 - 4.1.1.** No New Brunswick modifications
 - 4.1.2.** No New Brunswick modifications
 - 4.1.3.** No New Brunswick modifications
 - 4.1.4.** No New Brunswick modifications
 - 4.1.5.** No New Brunswick modifications
- 5. Effective Date:** No New Brunswick modifications

B. Requirements and Measures

- R1.** No New Brunswick modifications
- M1.** No New Brunswick modifications
- R2.** Each Planning Authority shall provide UFLS island boundaries, as identified per the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2 on UFLS, to Distribution Providers, Generator Owners, and Transmission Owners within 30 calendar days of receipt of a request. *[Violation Risk Factor: Lower] [Time Horizon: Long Term Planning]*
- M2.** No New Brunswick modifications
- R3.** Each Distribution Provider and Transmission Owner in the Eastern Interconnection portion of NPCC shall implement an automatic UFLS program, reflecting normal operating conditions, excluding outages. The automatic UFLS program shall be implemented on an island basis for each identified island per the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2 on UFLS as follows: *[Violation Risk Factor: High] [Time Horizon: Long Term Planning]*
- No New Brunswick modifications
 - No New Brunswick modifications
- M3.** No New Brunswick modifications
- R4.** No New Brunswick modifications
- M4.** No New Brunswick modifications
- R5.** No New Brunswick modifications
- M5.** No New Brunswick modifications
- R6.** No New Brunswick modifications
- M6.** No New Brunswick modifications
- R7.** No New Brunswick modifications
- M7.** No New Brunswick modifications
- R8.** No New Brunswick modifications
- M8.** No New Brunswick modifications

- R9.** No New Brunswick modifications
- M9.** No New Brunswick modifications
- R10.** No New Brunswick modifications
- M10.** No New Brunswick modifications
- R11.** No New Brunswick modifications
- M11.** No New Brunswick modifications
- R12.** No New Brunswick modifications
 - 12.1** No New Brunswick modifications
 - 12.2** No New Brunswick modifications
- M12.** No New Brunswick modifications
- R13.** No New Brunswick modifications
 - 13.1** No New Brunswick modifications
 - 13.2** No New Brunswick modifications
 - 13.3** No New Brunswick modifications
 - 13.4** No New Brunswick modifications
- M13.** No New Brunswick modifications
- R14.** No New Brunswick modifications
- M14.** No New Brunswick modifications
- R15.** No New Brunswick modifications
- M15.** No New Brunswick modifications
- R16.** No New Brunswick modifications
 - 16.1** No New Brunswick modifications
 - 16.2** No New Brunswick modifications
 - 16.3** No New Brunswick modifications
- M16.** No New Brunswick modifications

Figure 1
PRC-006-NPCC-2
Underfrequency Load Shedding Program – Eastern Interconnection
Design Performance Requirements

No New Brunswick modifications

Figure 2
PRC-006-NPCC-2
Underfrequency Load Shedding Program – Thresholds for Setting Underfrequency
Trip Protection for Generators

No New Brunswick modifications

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority:

New Brunswick Energy and Utilities Board

1.2. Evidence Retention:

No New Brunswick modifications

1.3. Compliance Monitoring and Enforcement Program:

No New Brunswick modifications

NB Appendix
PRC-006-NPCC-2-NB-0 Automatic Underfrequency Load Shedding

Violation Severity Levels

R #	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1.	No New Brunswick modifications			
R2.	The Planning Authority provided its UFLS island boundaries, as identified per the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2 on UFLS but did so more than 30 calendar days and up to and including 40 days following a request.	The Planning Authority provided its UFLS island boundaries, as identified per the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2 on UFLS but did so more than 40 calendar days but less than and including 50 days following a request.	The Planning Authority provided its UFLS island boundaries, as identified per the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2 on UFLS but did so more than 50 calendar days but less than and including 60 days following a request.	The Planning Authority failed to provide its UFLS island boundaries, as identified per the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2 on UFLS. within 60 calendar days following a request.
R3.	No New Brunswick modifications			
R4.				
R5.				
R6.				
R7.				
R8.				
R9.				
R10.				
R11.				
R12.				
R13.				

NB Appendix
PRC-006-NPCC-2-NB-0 Automatic Underfrequency Load Shedding

R #	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
R14.				
R15.				
R16.				

D. Regional Variances

No New Brunswick modifications

E. Associated Documents

No New Brunswick modifications

NB Appendix
PRC-006-NPCC-2-NB-0 Automatic Underfrequency Load Shedding

Version History (maintained by NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
0	06/29/20	07/01/20	1. The term Bulk Electric System and its acronym “BES” is replaced with the NB defined term bulk power system (BPS) throughout; 2. The term “Planning Coordinator” is replaced with “Planning Authority” throughout; 3. “NERC continent-wide PRC-006 standard” and “NERC PRC Standard” are replaced with “New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2” throughout; and 4. “Northeast Power Coordinating Council” is replaced with “New Brunswick Energy and Utilities Board” as the Compliance Enforcement Authority;	Approved by NBEUB, Matter 465 R3 shall be enforceable 07/01/21

Standard Attachments

PRC-006-NPCC-2 Attachment A

Compensatory Load Shedding Criteria for Ontario, Quebec, and the Maritime Provinces:

No New Brunswick modifications

The methodology below provides a set of criteria for the Planning Authority to follow for determining compensatory load shedding requirements as part of its UFLS Assessment based on the New Brunswick Energy and Utilities Board approved reliability standard PRC-006-2 on UFLS:

1. No New Brunswick modifications
 - 1.1 No New Brunswick modifications
 - 1.2 No New Brunswick modifications
 - 1.3 No New Brunswick modifications
 - 1.4 No New Brunswick modifications
2. No New Brunswick modifications
 - 2.1 No New Brunswick modifications
 - 2.2 No New Brunswick modifications
 - 2.3 No New Brunswick modifications
 - 2.4 No New Brunswick modifications

No New Brunswick modifications

PRC-006-NPCC-2 Attachment B

No New Brunswick modifications

PRC-006-NPCC-2 Attachment C

No New Brunswick modifications

Rationale Box:

No New Brunswick