

NB Appendix
TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

This appendix establishes modifications to the FERC approved NERC standard TPL-008-1 for its specific application in New Brunswick. This appendix must be read with TPL-008-1 to determine a full understanding of the requirements of the standard for New Brunswick. Where the standard and appendix differ, the appendix shall prevail.

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*;
- the term “ERO” shall mean “NERC”; and,
- the term “Planning Coordinator” shall mean “Planning Authority”.

A. Introduction

1. **Title:** Transmission System Planning Performance Requirements for Extreme Temperature Events
2. **Number:** TPL-008-1
3. **Purpose:** No New Brunswick modifications
4. **Applicability:**
 - 4.1. **Functional Entities:**
 - 4.1.1. No New Brunswick modifications
 - 4.1.2. No New Brunswick modifications
5. **Effective Dates:** No New Brunswick modifications

NB Appendix
TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

B. Requirements and Measures

- R1.** No New Brunswick modifications
- M1.** No New Brunswick modifications
- R2.** No New Brunswick modifications
 - 2.1.** No New Brunswick modifications
 - 2.2.** No New Brunswick modifications
- M2.** No New Brunswick modifications
- R3.** No New Brunswick modifications
 - 3.1.** No New Brunswick modifications
 - 3.2.** No New Brunswick modifications
 - 3.3.** No New Brunswick modifications
 - 3.4.** No New Brunswick modifications
- M3.** No New Brunswick modifications
- R4.** No New Brunswick modifications
 - 4.1.** No New Brunswick modifications
 - 4.2.** 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
 - 8.1.** No New Brunswick modifications
 - 8.2.** No New Brunswick modifications

NB Appendix
TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

- M8.** No New Brunswick modifications
- R9.** No New Brunswick modifications
 - 9.1.** No New Brunswick modifications
 - 9.2.** No New Brunswick modifications
 - 9.3.** Make its Corrective Action Plan available to, and solicit feedback from, the New Brunswick Energy and Utilities Board.
 - 9.4.** No New Brunswick modifications
- M9.** Each responsible entity, as identified in Requirement R1, shall provide dated evidence, such as electronic or hard copies of documentation, of each Corrective Action Plan developed in accordance with Requirement R9 when the analysis of a benchmark planning case indicates its portion of the Bulk Electric System is unable to meet performance requirements for category P0 or P1 in Table 1. Evidence shall include documentation of correspondence with the New Brunswick Energy and Utilities Board and any revision history.
- R10.** No New Brunswick modifications
 - 10.1.** No New Brunswick modifications
 - 10.2.** No New Brunswick modifications
- M10.** No New Brunswick modifications
- R11.** No New Brunswick modifications
- M11.** No New Brunswick modifications

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority:

“Compliance Enforcement Authority” (CEA) means New Brunswick Energy and Utilities Board.

1.2. Evidence Retention:

No New Brunswick modifications

1.3. Compliance Monitoring and Enforcement Program:

“Compliance Monitoring and Enforcement Program” refers to the identification of the processes that will be used to evaluate data or information for the purpose of assessing performance or outcomes with the associated Reliability Standard as set out in the New Brunswick Compliance Monitoring and Enforcement Program.

Table 1 – Steady State & Stability Performance Events

Steady State & Stability:

- a. No New Brunswick modifications
- b. No New Brunswick modifications
- c. No New Brunswick modifications
- d. No New Brunswick modifications
- e. No New Brunswick modifications

Steady State Only:

- f. No New Brunswick modifications
- g. No New Brunswick modifications

NB Appendix

TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

Table 1 – Steady State & Stability Performance Events							
Category	Initial Condition	Event ¹	Fault Type ³	Contingency BES Level	Interruption of Firm Transmission Service Allowed	Non-Consequential Load Loss Allowed	
						Benchmark Planning Cases	Sensitivity Cases
P0 No Contingency	No New Brunswick modifications						
P1 Single Contingency	No New Brunswick modifications						
P7 Multiple Contingency (Common Structure)	No New Brunswick modifications						

Table 1 – Steady State & Stability Performance Events

1. No New Brunswick modifications
2. No New Brunswick modifications
3. No New Brunswick modifications
4. No New Brunswick modifications
5. No New Brunswick modifications
6. No New Brunswick modifications

NB Appendix

TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

Violation Severity Levels

R #	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1.	No New Brunswick modification			
R2.				
R3.				
R4.				
R5.				
R6.				
R7.				
R8.				
R9.	N/A	N/A	The responsible entity, as identified in Requirement R1, developed a Corrective Action Plan in accordance with Requirement R9, but failed to make its Corrective Action Plan available to, or solicit feedback from, the New Brunswick Energy and Utilities Board.	No New Brunswick modifications

NB Appendix

TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

R #	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
R10.	No New Brunswick modifications			
R11.				

NB Appendix
TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

D. Regional Variances

No New Brunswick modifications

E. Associated Documents

No New Brunswick modifications

Version History (maintained by the NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
0	07/15/25	10/01/26	1. Replace the term “Bulk Electric System” and its acronym “BES” with “bulk power system” throughout. 2. Replace the term “Planning Coordinator” and its acronym “PC” with “Planning Authority” throughout. 3. Identify NERC as the Electric Reliability Organization (ERO). 4. Replace “applicable regulatory authorities or governing bodies responsible for retail electric service issues” with “NBEUB” throughout. 5. Revised Section C to clarify the NBEUB as the entity having the compliance enforcement authority for NB. 6. Replace “As defined in NERC Rules of Procedure” with “as set out in the New Brunswick Compliance Monitoring and Enforcement Program”.	Approved by NBEUB, Matter ER-002-2025. For detailed information about the initial compliance dates, please see the Implementation plan submitted under Matter ER-002-2025.

NB Appendix
TPL-008-1-NB-0 - Transmission System Planning Performance Requirements for Extreme Temperature Events

Attachment 1 – Extreme Temperature Assessment Zones

No New Brunswick modifications