

This appendix establishes modifications to the FERC approved NERC standard TPL-007-4 for its specific application in New Brunswick. This appendix must be read with TPL-007-4 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:** Transmission System Planned Performance for Geomagnetic Disturbance Events
2. **Number:** TPL-007-4
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
 - 4.1.3. No New Brunswick modifications
 - 4.1.4. No New Brunswick modifications
 - 4.2. **Facilities:**
 - 4.2.1. No New Brunswick modifications
5. **Effective Date:** The standard shall become effective on the first day of the first calendar quarter that is six months after the New Brunswick Energy and Utilities Board decision to approve the standard.

Phased-In Compliance Dates

Requirements R1, R2, R5 and R9

Entities shall be required to comply with Requirements R1, R2, R5, and R9 upon the effective date of reliability standard TPL-007-4.

Requirements R12 and R13

Entities shall not be required to comply with Requirements R12 and R13 until the later of: (i) January 1, 2022; or (ii) the effective date of Reliability Standard TPL-007-4.

Requirements R6 and R10

Entities shall not be required to comply with Requirements R6 and R10 until the later of: (i) July 1, 2022; or (ii) the effective date of Reliability Standard TPL-007-4.

Requirements R3, R4, and R8

Entities shall not be required to comply with Requirements R3, R4, and R8 until the later of: (i) July 1, 2023; or (ii) the effective date of Reliability Standard TPL-007-4.

Requirement R7

Entities shall not be required to comply with Requirement R7 until the later of: (i) July 1, 2024; or (ii) the effective date of Reliability Standard TPL-007-4.

Requirement R11

Entities shall not be required to comply with Requirement R11 until the later of: (i) July 1, 2024; or (ii) six (6) months after the effective date of Reliability Standard TPL-007-4.

6. Background: No New Brunswick modifications

B. Requirements and Measures

R1. No New Brunswick modifications

M1. No New Brunswick modifications

R2. No New Brunswick modifications

M2. No New Brunswick modifications

R3. No New Brunswick modifications

M3. No New Brunswick modifications

Benchmark GMD Vulnerability Assessment(s)

R4. No New Brunswick modifications

4.1. No New Brunswick modifications

4.1.1. No New Brunswick modifications

4.1.2. No New Brunswick modifications

4.2. No New Brunswick modifications

4.3. No New Brunswick modifications

4.3.1. No New Brunswick modifications

M4. No New Brunswick modifications

R5. No New Brunswick modifications

5.1. No New Brunswick modifications

5.2. No New Brunswick modifications

M5. No New Brunswick modifications

R6. No New Brunswick modifications

6.1. No New Brunswick modifications

6.2. No New Brunswick modifications

6.3. No New Brunswick modifications

6.4. No New Brunswick modifications

M6. No New Brunswick modifications

- R7.** No New Brunswick modifications
 - 7.1** No New Brunswick modifications
 - 7.2** No New Brunswick modifications
 - 7.3** No New Brunswick modifications
 - 7.3.1.** No New Brunswick modifications
 - 7.3.2.** No New Brunswick modifications
 - 7.4** No New Brunswick modifications
 - 7.4.1.** No New Brunswick modifications
 - 7.4.2.** No New Brunswick modifications
 - 7.4.3.** No New Brunswick modifications
 - 7.5** No New Brunswick modifications
 - 7.5.1.** No New Brunswick modifications

- M7.** No New Brunswick modifications

Supplemental GMD Vulnerability Assessment(s)

- R8.** No New Brunswick modifications
 - 8.1.** No New Brunswick modifications
 - 8.1.1.** No New Brunswick modifications
 - 8.1.2.** No New Brunswick modifications
 - 8.2.** No New Brunswick modifications
 - 8.3.** No New Brunswick modifications
 - 8.3.1.** No New Brunswick modifications

- M8.** No New Brunswick modifications

- R9.** No New Brunswick modifications
 - 9.1.** No New Brunswick modifications
 - 9.2.** No New Brunswick modifications

- M9.** No New Brunswick modifications

- R10. No New Brunswick modifications
 - 10.1. No New Brunswick modifications
 - 10.2. No New Brunswick modifications
 - 10.3. No New Brunswick modifications
 - 10.4. No New Brunswick modifications
- M10. No New Brunswick modifications
- R11. No New Brunswick modifications
 - 11.1. No New Brunswick modifications
 - 11.2. No New Brunswick modifications
 - 11.3. No New Brunswick modifications
 - 11.3.1. No New Brunswick modifications
 - 11.3.2. No New Brunswick modifications
 - 11.4. No New Brunswick modifications
 - 11.4.1. No New Brunswick modifications
 - 11.4.2. No New Brunswick modifications
 - 11.4.3. No New Brunswick modifications
 - 11.5. No New Brunswick modifications
 - 11.5.1. No New Brunswick modifications
- M11. No New Brunswick modifications

GMD Measurement Data Processes

- R12. No New Brunswick modifications
- M12. No New Brunswick modifications
- R13. No New Brunswick modifications
- M13. No New Brunswick modifications

C. Compliance

1. Compliance Monitoring Process

1.1. No New Brunswick modifications

1.2. 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 Planning GMD Event

No New Brunswick modifications

Violation Severity Levels

R #	Violation Severity Levels			
	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1.	No New Brunswick modifications			
R2.				
R3.				
R4.				
R5.				
R6.				
R7.				
R8.				
R9.				
R10.				
R11.				
R12.				
R13.				

NB Appendix

TPL-007-4-NB-0 - Transmission System Planned Performance for Geomagnetic Disturbance Events

D. Regional Variances

D.A. Regional Variances for Canadian Jurisdictions

No New Brunswick modifications

E. Associated Documents

No New Brunswick modifications

Version History (maintained by NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
0	07/27/20	04/01/21	1. Replaced the term Bulk Electric System and its acronym “BES” with the NB defined term bulk power system (BPS) throughout. 2. Replaced the term “Planning Coordinator” with “Planning Authority” throughout. 3. Updated implementation plan dates that were specified in the NERC TPL-007-4 implementation plan with ones that take into account the timing of the approval process in New Brunswick. 4. Replaced “As defined in NERC Rule of Procedures” with “as set out in the New Brunswick Compliance Monitoring and Enforcement Program”.	Approved by NBEUB, Matter 470. R12 and R13 shall be enforceable 01/01/22 R6 and R10 shall be enforceable 07/01/22 R3, R4, and R8 shall be enforceable 07/01/23 R7 and R11 shall be Enforceable 07/01/24

NB Appendix
TPL-007-4-NB-0 - Transmission System Planned Performance for Geomagnetic Disturbance Events

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Attachment 1

No New Brunswick modifications

Attachment 1-CAN

No New Brunswick modifications