

NB Appendix
PRC-002-2-NB-0 - Disturbance Monitoring and Reporting Requirements

This appendix establishes modifications to the FERC approved NERC standard PRC-002-2 for its specific application in New Brunswick. This appendix must be read with PRC-002-2 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*.

For the purpose of this standard the term "Planning Coordinator" shall mean "Planning Authority"

A. Introduction

- 1. Title: Disturbance Monitoring and Reporting Requirements**
- 2. Number:** PRC-002-2
- 3. Purpose:** No New Brunswick modifications
- 4. Applicability: Functional Entities**
 - 4.1** No New Brunswick modifications
 - 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** No New Brunswick modifications
 - 4.3** No New Brunswick modifications
- 5. Effective Dates:**

No New Brunswick modifications

B. Requirements and Measures

- R1.** No New Brunswick modifications
 - 1.1.** No New Brunswick modifications
 - 1.2.** No New Brunswick modifications
 - 1.3.** No New Brunswick modifications
- M1.** No New Brunswick modifications
- R2.** 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
 - 3.2.1** No New Brunswick modifications
 - 3.2.2** 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
 - 4.3** No New Brunswick modifications
 - 4.3.1** No New Brunswick modifications
 - 4.3.2** No New Brunswick modifications
- M4.** No New Brunswick modifications
- R5.** No New Brunswick modifications
 - 5.1** No New Brunswick modifications
 - 5.1.1** No New Brunswick modifications

- 5.1.1.1 No New Brunswick modifications
 - 5.1.1.2 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
 - 5.1.5 No New Brunswick modifications
 - 5.2 No New Brunswick modifications
 - 5.2.1 No New Brunswick modifications
 - 5.2.2 No New Brunswick modifications
 - 5.3 No New Brunswick modifications
 - 5.4 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
 - 7.4 No New Brunswick modifications
- M7. No New Brunswick modifications

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- R8.** No New Brunswick modifications
 - 8.1** No New Brunswick modifications
 - 8.2** 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
- M10.** No New Brunswick modifications
- R11.** Each Transmission Owner and Generator Owner shall provide, upon request, all SER and FR data for the BES buses identified in Requirement R1 and DDR data for the BES Elements identified in Requirement R5 to the Responsible Entity, New Brunswick Energy and Utilities Board, Northeast Power Coordinating Council (NPCC), or NERC in accordance with the following: *[Violation Risk Factor: Lower] [Time Horizon: Long-term Planning]*
 - 11.1** No New Brunswick modifications
 - 11.2** No New Brunswick modifications
 - 11.3** No New Brunswick modifications
 - 11.4** No New Brunswick modifications
 - 11.5** No New Brunswick modifications
- M11.** No New Brunswick modifications
- R12.** No New Brunswick modifications
 - No New Brunswick modifications

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- Submit a Corrective Action Plan (CAP) to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board and implement it.

M12. The Transmission Owner or Generator Owner has dated evidence (electronic or hard copy) that meets Requirement R12. Evidence may include, but is not limited to: (1) dated reports of discovery of a failure, (2) documentation noting the date the data recording was restored, (3) SCADA records, or (4) dated CAP transmittals to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board and evidence that it implemented the CAP.

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 Assessment Processes:

No New Brunswick modifications

1.4. Additional Compliance Information

No New Brunswick modifications

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Table of Compliance Elements

R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
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R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
R12	No New Brunswick modifications		The Transmission Owner or Generator Owner as directed by Requirement R12 reported a failure and provided a Corrective Action Plan to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board more than 90-calendar days but less than or equal to 100-calendar days after discovery of the failure.	The Transmission Owner or Generator Owner as directed by Requirement R12 reported a failure and provided a Corrective Action Plan to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board more than 100-calendar days but less than or equal to 110-calendar days after discovery of the failure.	The Transmission Owner or Generator Owner as directed by Requirement R12 reported a failure and provided a Corrective Action Plan to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board more than 110-calendar days but less than or equal to 120-calendar days after discovery of the failure. OR The Transmission Owner or Generator Owner as directed by Requirement R12 submitted a CAP to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board but failed to implement it.	The Transmission Owner or Generator Owner as directed by Requirement R12 failed to report a failure and provide a Corrective Action Plan to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board more than 120- calendar days after discovery of the failure. OR Transmission Owner or Generator Owner as directed by Requirement R12 failed to restore the recording capability and failed to submit a CAP to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board.

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D. Regional Variances

No New Brunswick modifications

E. Interpretations

No New Brunswick modifications

F. Associated Documents

No New Brunswick modifications

G. References

No New Brunswick modifications

Version History (maintained by the NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
o	05/17/16	01/01/17	1. Bulk Electric System (BES) replaced with "bulk power system" throughout. 2. "Planning Coordinator" replaced with "Planning Authority" throughout. 3. Revised Section BR11 and Guidelines and Technical Basis Section- Guideline for	Approved Under NBEUB Matter 311 Effective dates: R1 and R5 01/01/17 R12 04/01/17

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			R11 to replace Regional Entity with NBEUB, NPCC. 4. Revised Section BR12, BM12, Table of Elements (R12) and Guidelines and Technical Basis Section- Guideline for R12 to replace "Regional Entity" with New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board. 5. Revised Technical Basis Section- Guideline for R3 to remove "as defined in the latest in effect NERC definition " 6. Revised Section C to clarify the NBEUB as the entity having the compliance enforcement authority for NB.	R2, R3, R4, R6, R7, R8, R9, R10 and R11 01/01/23
o	05/17/16	01/01/17	Added implementation table	Approved Under NBEUB Matter 311

Requirements	% Compliant	By
R1 and R5	100	01/01/17
R12	100	04/01/17

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R2, R3, R4, R6, R7, R8, R9, R10 and R11	50	01/01/21
R2, R3, R4, R6, R7, R8, R9, R10 and R11	100	01/01/23

Attachment 1

No New Brunswick modifications

Attachment 2

No New Brunswick modifications

High Level Requirement Overview

No New Brunswick modifications

Rationale:

No New Brunswick modifications

Guidelines and Technical Basis Section

Introduction

No New Brunswick modifications

Guideline for Requirement R1:

Guideline for Requirement R2:

No New Brunswick modifications

Guideline for Requirement R3:

No New Brunswick modifications

- No New Brunswick modifications
- No New Brunswick modifications

Only those BES Elements that are identified as BES are to be monitored. For example, radial lines or transformers with low-side voltage less than 100kV are not included.

No New Brunswick modifications

No New Brunswick modifications

- No New Brunswick modifications
- No New Brunswick modifications

No New Brunswick modifications

Recording of Electrical Quantities

No New Brunswick modifications

Current Recordings

No New Brunswick modifications

No New Brunswick modifications

No New Brunswick modifications

No New Brunswick modifications

Voltage Recordings

No New Brunswick modifications

Guideline for Requirement R4:

No New Brunswick modifications

Guideline for Requirement R5:

No New Brunswick modifications

Guideline for Requirement R6:

No New Brunswick modifications

Guideline for Requirement R7:

No New Brunswick modifications

Guideline for Requirement R8:

No New Brunswick modifications

Guideline for Requirement R9:

No New Brunswick modifications

Guideline for Requirement R10:

No New Brunswick modifications

Guideline for Requirement R11:

This requirement directs the applicable entities, upon requests from the Responsible Entity, New Brunswick Energy and Utilities Board, NPCC, or NERC, to provide SER and FR data for BES buses determined in Requirement R1 and DDR data for BES Elements determined as per Requirement R5. To facilitate the analysis of BES Disturbances, it is important that the data is provided to the requestor within a reasonable period of time.

No New Brunswick modifications

No New Brunswick modifications

No New Brunswick modifications

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Guideline for Requirement R12:

Furthermore, 90-calendar days is typically sufficient time for repair or maintenance to be performed. However, in recognition of the fact that there may be occasions for which it is not possible to restore the capability within 90-calendar days, the requirement further provides that, for such cases, the entity submit a Corrective Action Plan (CAP) to the New Brunswick Energy and Utilities Board, or NPCC as directed by the New Brunswick Energy and Utilities Board and implement it. These actions are considered to be appropriate to provide for robust and adequate data availability.