

NB Appendix
PRC-006-4-NB-0 – Automatic Underfrequency Load Shedding

This appendix establishes modifications to the FERC approved NERC standard PRC-006-4 for its specific application in New Brunswick. This appendix must be read with PRC-006-4 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*.

A. Introduction

- 1. Title:** Automatic Underfrequency Load Shedding
- 2. Number:** PRC-006-4
- 3. Purpose:** No New Brunswick modifications
- 4. Applicability:**
 - 4.1.** Planning Coordinator. For the purpose of this standard “Planning Coordinator” shall mean “Planning Authority”.
 - 4.2.** No New Brunswick modifications
 - 4.2.1** No New Brunswick modifications
 - 4.2.2** No New Brunswick modifications
 - 4.2.3** No New Brunswick modifications
 - 4.3.** 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.** No New Brunswick modifications
 - 2.1.** No New Brunswick modifications
 - 2.2.** No New Brunswick modifications

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- 2.3. 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
 - No New Brunswick modifications
 - No New Brunswick modifications
 - 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
 - 4.4. No New Brunswick modifications
 - 4.5. No New Brunswick modifications
 - 4.6. No New Brunswick modifications
 - 4.7. No New Brunswick modifications
- M4.** No New Brunswick modifications
- R5.** No New Brunswick modifications
 - No New Brunswick modifications
 - No New Brunswick modifications
 - Conduct an independent UFLS design assessment per Requirement R4 for the identified island, and in the event the UFLS design assessment fails to meet Requirement R3, identify modifications to the UFLS program(s) to meet Requirement R3 and report these modifications as recommendations to the other Planning Coordinators whose areas or portions of whose areas are

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also part of the same identified island and the New Brunswick Energy and Utilities Board or NPCC, or NERC as directed by the New Brunswick Energy and Utilities Board.

- 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
 - 11.1.** No New Brunswick modifications
 - 11.2.** No New Brunswick modifications
- M11.** No New Brunswick modifications
- R12.** No New Brunswick modifications
- M12.** No New Brunswick modifications
- R13.** No New Brunswick modifications
 - No New Brunswick modifications
 - No New Brunswick modifications
 - Conduct an independent event assessment per Requirement R11 and where the assessment fails to reach conclusions and recommendations consistent with those of the event assessments of the other Planning Coordinators whose areas or portions of whose areas were included in the same islanding event,

identify differences in the assessments that likely resulted in the differences in the conclusions and recommendations and report these differences to the other Planning Coordinators whose areas or portions of whose areas were included in the same islanding event and the New Brunswick Energy and Utilities Board or NPCC, or NERC as directed by the New Brunswick Energy and Utilities Board.

M13. No New Brunswick modifications

R14. No New Brunswick modifications

14.1. No New Brunswick modifications

14.2. No New Brunswick modifications

14.3. No New Brunswick modifications

M14. No New Brunswick modifications

R15. No New Brunswick modifications

15.1. No New Brunswick modifications

15.2. No New Brunswick modifications

M15. No New Brunswick modifications

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

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

1.2. Evidence Retention

No New Brunswick modifications

- No New Brunswick modifications
- No New Brunswick modifications
- No New Brunswick modifications
- No New Brunswick modifications

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- No New Brunswick modifications
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1.3. Compliance Monitoring and Assessment Processes:

No New Brunswick modifications

1.4. Additional Compliance Information

No New Brunswick modifications

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2. Violation Severity Levels

R #	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1				
R2				
R3				
R4				
R5				
R6				
R7				
R8				
R9				
R10				
R11				
R12				
R13				
R14				
R15				

No New Brunswick modifications

D. Regional Variances

D.A. Regional Variance for the Quebec Interconnection

No New Brunswick modifications

Rationale for Requirement D.A.3

No New Brunswick modifications

1. No New Brunswick modifications
2. No New Brunswick modifications

Rationale for Requirements D.A.3.3. and D.A.4

No New Brunswick modifications

D.A.3. No New Brunswick modifications

- No New Brunswick modifications
- No New Brunswick modifications
- No New Brunswick modifications
- No New Brunswick modifications
- No New Brunswick modifications
- No New Brunswick modifications

D.A.3.1. No New Brunswick modifications

D.A.3.2. No New Brunswick modifications

D.A.3.3. No New Brunswick modifications

M.D.A.3. No New Brunswick modifications

DA4. No New Brunswick modifications

D.A.4.1 No New Brunswick modifications

D.A.4.2 No New Brunswick modifications

D.A.4.3 No New Brunswick modifications

M.D.A.4. No New Brunswick modifications

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D#	Lower VSL	Moderate VSL	High VSL	Severe VSL
DA3	No New Brunswick modifications			
DA4				

D.B. Regional Variance for the Western Electricity Coordinating Council

No New Brunswick modifications

D.B.1. No New Brunswick modifications

M.D.B.1. No New Brunswick modifications

D.B.2. No New Brunswick modifications

D.B.2.1. No New Brunswick modifications

D.B.2.2. No New Brunswick modifications

M.D.B.2. No New Brunswick modifications

D.B.3. No New Brunswick modifications

D.B.3.1. No New Brunswick modifications

D.B.3.2. No New Brunswick modifications

D.B.3.3. No New Brunswick modifications

DB33.1 No New Brunswick modifications

DB33.2 No New Brunswick modifications

DB33.3 No New Brunswick modifications

M.D.B.3. No New Brunswick modifications

D.B.4. No New Brunswick modifications

D.B.4.1. No New Brunswick modifications

D.B.4.2. No New Brunswick modifications

D.B.4.3. No New Brunswick modifications

D.B.4.4. No New Brunswick modifications

D.B.4.5. No New Brunswick modifications

D.B.4.6. No New Brunswick modifications

D.B.4.7. No New Brunswick modifications

M.D.B.4. No New Brunswick modifications

D.B.11. No New Brunswick modifications

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D.B.11.1. No New Brunswick modifications

D.B.11.2. No New Brunswick modifications

M.D.B.11. No New Brunswick modifications

D.B.12. No New Brunswick modifications

M.D.B.12. No New Brunswick modifications

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D #	Lower VSL	Moderate VSL	High VSL	Severe VSL
D.B.1	No New Brunswick modifications			
D.B.2				
D.B.3				
D.B.4				
D.B.11				
D.B.12				

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E. Associated Documents

Version History (maintained by the NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
0	04/30/21	10/01/21	1. Replace the term “Bulk Electric System” and its acronym “BES” with “bulk power system” throughout. 2. Revised Section C to clarify the NBEUB as the entity having the compliance enforcement authority for NB. 3. Replace “ERO” with “New Brunswick Energy and Utilities Board, or NPCC, or NERC as directed by the New Brunswick Energy and Utilities Board.” 4. Replace the term “Planning Coordinator” and its acronym “PC” with “Planning Authority” throughout.	Approved by NBEUB, Matter 489.

PRC-006-4 – Attachment 1

No New Brunswick modifications

Rationale:

No New Brunswick modifications

Rationale for R9:

No New Brunswick modifications

Rationale for R10:

No New Brunswick modifications

Rationale for R15:

No New Brunswick modifications