

NB Appendix
**PRC-004-2.1(i)a-NB-0 - Analysis and Mitigation of Transmission and
Generation Protection System Misoperations**

This appendix establishes modifications to the FERC approved NERC standard PRC-004-2.1(i)a for its specific application in New Brunswick. This appendix must be read with PRC-004-2.1(i)a 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:** Analysis and Mitigation of Transmission and Generation Protection System Misoperations
- 2. Number:** PRC-004-2.1(i)a
- 3. Purpose:** No New Brunswick modifications
- 4. Applicability**
 - 4.1.** No New Brunswick modifications
 - 4.2.** No New Brunswick modifications
 - 4.3.** No New Brunswick modifications
- 5. Effective Date:** No New Brunswick modifications

B. Requirements

- R1.** The Transmission Owner and any Distribution Provider that owns a transmission Protection System shall each analyze its transmission Protection System Misoperations and shall develop and implement a Corrective Action Plan to avoid future Misoperations of a similar nature according to the New Brunswick Energy and Utilities Board, NPCC, or NERC procedures as directed by the New Brunswick Energy and

Utilities Board.

- R2.** The Generator Owner shall analyze its generator and generator interconnection Facility Protection System Misoperations, and shall develop and implement a Corrective Action Plan to avoid future Misoperations of a similar nature according to the New Brunswick Energy and Utilities Board, NPCC, or NERC procedures as directed by the New Brunswick Energy and Utilities Board.

- No New Brunswick modifications

- R3.** The Transmission Owner, any Distribution Provider that owns a transmission Protection System, and the Generator Owner shall each provide to the New Brunswick Energy and Utilities Board, NPCC, or NERC as directed by the New Brunswick Energy and Utilities Board, documentation of its Misoperations analyses and Corrective Action Plans according to the New Brunswick Energy and Utilities Board, NPCC, or NERC procedures as directed by the New Brunswick Energy and Utilities Board.

- No New Brunswick modifications

C. Measures

- M1.** The Transmission Owner, and any Distribution Provider that owns a transmission Protection System shall each have evidence it analyzed its Protection System Misoperations and developed and implemented Corrective Action Plans to avoid future Misoperations of a similar nature according to the New Brunswick Energy and Utilities Board, NPCC, or NERC procedures as directed by the New Brunswick Energy and Utilities Board.
- M2.** The Generator Owner shall have evidence it analyzed its Protection System Misoperations and developed and

implemented Corrective Action Plans to avoid future Misoperations of a similar nature according to the New Brunswick Energy and Utilities Board, NPCC, or NERC procedures as directed by the New Brunswick Energy and Utilities Board

- M3.** Each Transmission Owner, and any Distribution Provider that owns a transmission Protection System, and each Generator Owner shall have evidence it provided documentation of its Protection System Misoperations, analyses and Corrective Action Plans according to the New Brunswick Energy and Utilities Board, NPCC, or NERC procedures as directed by the New Brunswick Energy and Utilities Board

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

New Brunswick Energy and Utilities Board

1.2. Compliance Monitoring Period and Reset Time Frame

No New Brunswick modifications

1.3. Compliance Monitoring and Enforcement Processes:

No New Brunswick modifications

1.4. Data Retention

No New Brunswick modifications

1.5. Additional Compliance Information

No New Brunswick modifications

2. Violation Severity Levels (no changes)

No New Brunswick modifications

NB Appendix
**PRC-004-2.1(i)a-NB-0 - Analysis and Mitigation of Transmission and
Generation Protection System Misoperations**

E. Regional Differences

No New Brunswick modifications

F. Associated Documents

No New Brunswick modifications

Version History (maintained by NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
0	12/14/15	12/14/15	1. Bulk Electric System (BES) replaced with "bulk power system" throughout. 2. Revised Sections B and C to replace "Regional Entity's procedures" with the NBEUB, NPCC, or NERC as directed by the NBEUB. 3. Revised Section B to replace "its Regional Entity" with the NBEUB, NPCC, or NERC as directed by the NBEUB.	Approved Under NBEUB Matter 295 Effective dates: All requirements 12/14/15

NB Appendix
**PRC-004-2.1(i)a-NB-0 - Analysis and Mitigation of Transmission and
Generation Protection System Misoperations**

			3. Revised Section D to clarify the NBEUB as the entity having the compliance enforcement authority for NB.	

Rationale:

No New Brunswick modifications

Rationale for Introduction:

No New Brunswick modifications

Rationale for Applicability:

No New Brunswick modifications

Appendix 1¹

No New Brunswick modifications

¹ No New Brunswick modifications