

NB Appendix
MOD-027-1-NB-0 - Verification of Models and Data for
Turbine/Governor and Load Control or Active Power/Frequency Control
Functions

This appendix establishes modifications to the FERC approved NERC standard MOD-027-1 for its specific application in New Brunswick. This appendix must be read with MOD-027-1 to determine a full understanding of the requirements of the standard for New Brunswick. Where the standard and appendix differ, the appendix shall prevail.

A. Introduction

- 1. Title:** **Verification of Models and Data for**
 Turbine/Governor and Load Control or Active
 Power/Frequency Control Functions
- 2. Number:** MOD-027-1
- 3. Purpose:** To verify that the turbine/governor and load control or active power/frequency control¹ model and the model parameters, used in dynamic simulations that assess bulk power system bulk power system reliability, accurately represent generator unit real power response to system frequency variations.
- 4. Applicability:**
 - 4.1. Functional entities**
 - 4.1.1** No New Brunswick modifications
 - 4.1.2** No New Brunswick modifications
 - 4.2. Facilities**

For the purpose of the requirements contained herein, Facilities that are directly connected to the bulk power system bulk power system will be collectively referred to as an “applicable unit” that meet the following:

 - 4.2.1** No New Brunswick modifications
 - 4.2.1.1** No New Brunswick modifications
 - 4.2.1.2** Individual generating plant
 consisting of multiple generating units
 that are directly connected at a common

¹ No New Brunswick modifications

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bulk power system bus with total generation greater than 100 MVA (gross aggregate nameplate rating).

4.2.2 No New Brunswick modifications

4.2.2.1 No New Brunswick modifications

4.2.2.2 Individual generating plant consisting of multiple generating units that are directly connected at a common bulk power system bus with total generation greater than 75 MVA (gross aggregate nameplate rating).

4.2.3 No New Brunswick modifications

4.2.3.1 No New Brunswick modifications

4.2.3.2 Individual generating plant consisting of multiple generating units that are directly connected at a common bulk power system bus with total generation greater than 75 MVA (gross aggregate nameplate rating).

5. Effective Date:

5.1. No New Brunswick modifications

5.2. No New Brunswick modifications

5.3. No New Brunswick modifications

5.4. No New Brunswick modifications

B. Requirements

R1. No New Brunswick modifications

R2. No New Brunswick modifications

2.1. No New Brunswick modifications

2.1.1. No New Brunswick modifications

2.1.2. No New Brunswick modifications

2.1.3. No New Brunswick modifications

2.1.4. No New Brunswick modifications

2.1.5. No New Brunswick modifications

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- R3.** No New Brunswick modifications
- R4.** No New Brunswick modifications
- R5.** No New Brunswick modifications
 - 5.1.** No New Brunswick modifications
 - 5.2.** No New Brunswick modifications
 - 5.3.** No New Brunswick modifications

C. Measures

- M1.** No New Brunswick modifications
- M2.** No New Brunswick modifications
- M3.** No New Brunswick modifications
- M4.** No New Brunswick modifications
- M5.** No New Brunswick modifications

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

The New Brunswick Energy and Utilities Board shall serve as the Compliance Enforcement Authority.

1.2. Data 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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2. Violation Severity Levels

R #	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	No New Brunswick modifications			
R2				
R3				
R4				
R5				

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E. Regional Variances

No New Brunswick modifications

F. Associated Documents

No New Brunswick modifications

Version History (maintained by the NBEUB)

Version	NBEUB Approval Date	NB Appendix Effective Date	Change Tracking	Comments
0	11/12/14	01/01/15	1. Bulk Electric System(BES)replaced with "Bulk power system" throughout 2. Revised Section D to clarify the NBEUB as the entity having the compliance enforcement authority for NB	Approved Under NBEUB Matter 257 Effective dates: R1, R3, R4 and R5 01/01/15 R2 * See Implementation Plan Timelines below

***Implementation Plan Timelines for R2**

% Compliant	By
30%	01/01/19
50%	01/01/21
100%	01/01/25

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G. References

No New Brunswick modifications

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MOD-027 Attachment 1		
Turbine /Governor and Load Control or Active Power/Fre que ncy Control Mode l Periodicity		
Row Number	Verification Condition	Required Action
1	No New Brunswick modifications	
2		
3		
4		
5		
6		
7		
8		
NOTES: No New Brunswick modifications		