

NB Appendix
**MOD-026-1-NB-0 - Verification of Models and Data for Generator
Excitation Control System or Plant Volt/Var Control Functions**

This appendix establishes modifications to the FERC approved NERC standard MOD-026-1 for its specific application in New Brunswick. This appendix must be read with MOD-026-1 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 Generator
Excitation Control System or Plant Volt/Var Control
Functions**
- 2. Number:** MOD-026-1
- 3. Purpose:** To verify that the generator excitation control
system or plant volt/var control function¹ model (including
the power system stabilizer model and the impedance
compensator model) and the model parameters used in dynamic
simulations accurately represent the generator excitation
control system or plant volt/var control function behavior
when assessing bulk power system reliability.
- 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 will be collectively referred 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 bulk power

¹ No New Brunswick modifications

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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 No New Brunswick modifications

4.2.3 No New Brunswick modifications

4.2.3.1 No New Brunswick modifications

4.2.3.2 No New Brunswick modifications

4.2.4 For all Interconnections:

- A technically justified² unit that meets the criteria for a Generator Owner as set out in Section 6 of the *Reliability Standards Regulation - Electricity Act* but is not otherwise included in the above Applicability sections 4.2.1, 4.2.2, or 4.2.3 and is requested by the Transmission Planner.

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

² No New Brunswick modifications

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2.1.6. No New Brunswick modifications

R3. No New Brunswick modifications

R4. No New Brunswick modifications

R5. 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

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

M6. 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				
R6				

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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" in sections applicable to NB 2. Revised Section A to clarify that registration criteria requirements are set out in the <i>Reliability Standards Regulation-Electricity Act</i> 3. Revised Section D to clarify the NBEUB as the entity having the compliance	Approved Under NBEUB Matter 257 Effective dates: R1, R3, R4, R5 and R6 01/01/15 R2 * See Implementation Plan Timelines below

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			enforcement authority for NB	

***Implementation Plan Timelines for R2**

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

G. References

No New Brunswick modifications

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MOD-026 Attachment 1		
Excitation Control System or Plant Volt/Var Function Model Verification Periodicity		
Row Number	Verification Condition	Required Action
1	No New Brunswick modifications	
2		
3		
4		
5		
6		
7		
NOTES: No New Brunswick modifications		