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 function\(^1\) 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 Electric System (BES) reliability.

4. **Applicability:**

   4.1. **Functional Entities:**
      
      a. Generator Owner
      
      b. Transmission Planner

   4.2. **Facilities:**

      For the purpose of the requirements contained herein, Facilities that are directly connected to the Bulk Electric System (BES) will be collectively referred as an “applicable unit” that meet the following:

      a. **Generation in the Eastern or Quebec Interconnections with the following characteristics:**
         
         i. Individual generating unit greater than 100 MVA (gross nameplate rating).
         
         ii. Individual generating plant consisting of multiple generating units that are directly connected at a common BES bus with total generation greater than 100 MVA (gross aggregate nameplate rating).

      b. **Generation in the Western Interconnection with the following characteristics:**
         
         i. Individual generating unit greater than 75 MVA (gross nameplate rating).
         
         ii. Individual generating plant consisting of multiple generating units that are directly connected at a common BES bus with total generation greater than 75 MVA (gross aggregate nameplate rating).

\(^1\) Excitation control system or plant volt/var control function:

a. For individual synchronous machines, the generator excitation control system includes the generator, exciter, voltage regulator, impedance compensation and power system stabilizer.

b. For an aggregate generating plant, the volt/var control system includes the voltage regulator & reactive power control system controlling and coordinating plant voltage and associated reactive capable resources.
4.2.3 Generation in the ERCOT Interconnection with the following characteristics:

4.2.3.1 Individual generating unit greater than 50 MVA (gross nameplate rating).

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

4.2.4 For all Interconnections:

- A technically justified\(^2\) unit that meets NERC registry criteria 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. For Requirements R1, and R3 through R6, the first day of the first calendar quarter beyond the date that this standard is approved by applicable regulatory authorities or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities. In those jurisdictions where regulatory approval is not required, the standard shall become effective on the first day of the first calendar quarter beyond the date this standard is approved by the NERC Board of Trustees, or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities.

5.2. For Requirement R2, 30 percent of the entity’s applicable unit gross MVA for each Interconnection on the first day of the first calendar quarter that is four years following applicable regulatory approval or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities, or in those jurisdictions where no regulatory approval is required, on the first day of the first calendar quarter that is four years following NERC Board of Trustees adoption or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities.

5.3. For Requirement R2, 50 percent of the entity’s applicable unit gross MVA for each Interconnection on first day of the first calendar quarter that is six years following applicable regulatory approval or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities, or in those jurisdictions where no regulatory approval is required, on the first day of the first calendar quarter that is six years following NERC Board of Trustees adoption or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities.

5.4. For Requirement R2, 100 percent of the entity’s applicable unit gross MVA for each Interconnection on the first day of the first calendar quarter that is 10 years following applicable regulatory approval or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities.

\(^2\) Technical justification is achieved by the Transmission Planner demonstrating that the simulated unit or plant response does not match the measured unit or plant response.
following applicable regulatory approval or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities, or in those jurisdictions where no regulatory approval is required, on the first day of the first calendar quarter that is 10 years following NERC Board of Trustees adoption or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities.

B. Requirements

R1. Each Transmission Planner shall provide the following requested information to the Generator Owner within 90 calendar days of receiving a written request:  

[Violation Risk Factor: Lower] [Time Horizon: Operations Planning]

- Instructions on how to obtain the list of excitation control system or plant volt/var control function models that are acceptable to the Transmission Planner for use in dynamic simulation,
- Instructions on how to obtain the dynamic excitation control system or plant volt/var control function model library block diagrams and/or data sheets for models that are acceptable to the Transmission Planner, or
- Model data for any of the Generator Owner’s existing applicable unit specific excitation control system or plant volt/var control function contained in the Transmission Planner’s dynamic database from the current (in-use) models, including generator MVA base.

R2. Each Generator Owner shall provide for each applicable unit, a verified generator excitation control system or plant volt/var control function model, including documentation and data (as specified in Part 2.1) to its Transmission Planner in accordance with the periodicity specified in MOD-026 Attachment 1.  

[Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]

2.1. Each applicable unit’s model shall be verified by the Generator Owner using one or more models acceptable to the Transmission Planner. Verification for individual units less than 20 MVA (gross nameplate rating) in a generating plant (per Section 4.2.1.2, 4.2.2.2, or 4.2.3.2) may be performed using either individual unit or aggregate unit model(s), or both. Each verification shall include the following:

2.1.1. Documentation demonstrating the applicable unit’s model response matches the recorded response for a voltage excursion from either a staged test or a measured system disturbance,

2.1.2. Manufacturer, model number (if available), and type of the excitation control system including, but not limited to static, AC brushless, DC rotating, and/or the plant volt/var control function (if installed),

2.1.3. Model structure and data including, but not limited to reactance, time constants, saturation factors, total rotational inertia, or equivalent data for the generator,
2.1.4. Model structure and data for the excitation control system, including the closed loop voltage regulator if a closed loop voltage regulator is installed or the model structure and data for the plant volt/var control function system,

2.1.5. Compensation settings (such as droop, line drop, differential compensation), if used, and

2.1.6. Model structure and data for power system stabilizer, if so equipped.

R3. Each Generator Owner shall provide a written response to its Transmission Planner within 90 calendar days of receiving one of the following items for an applicable unit:

- Written notification from its Transmission Planner (in accordance with Requirement R6) that the excitation control system or plant volt/var control function model is not usable,
- Written comments from its Transmission Planner identifying technical concerns with the verification documentation related to the excitation control system or plant volt/var control function model, or
- Written comments and supporting evidence from its Transmission Planner indicating that the simulated excitation control system or plant volt/var control function model response did not match the recorded response to a transmission system event.

The written response shall contain either the technical basis for maintaining the current model, the model changes, or a plan to perform model verification\(^3\) (in accordance with Requirement R2). \([\text{Violation Risk Factor: Lower}] \ [\text{Time Horizon: Operations Planning}]\)

R4. Each Generator Owner shall provide revised model data or plans to perform model verification\(^4\) (in accordance with Requirement R2) for an applicable unit to its Transmission Planner within 180 calendar days of making changes to the excitation control system or plant volt/var control function that alter the equipment response characteristic.\(^5\) \([\text{Violation Risk Factor: Lower}] \ [\text{Time Horizon: Operations Planning}]\)

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\(^3\) If verification is performed, the 10-year period as outlined in MOD-026 Attachment 1 is reset.

\(^4\) Ibid

\(^5\) Exciter, voltage regulator, plant volt/var or power system stabilizer control replacement including software alterations that alter excitation control system equipment response, plant digital control system addition or replacement, plant digital control system software alterations that alter excitation control system equipment response, plant volt/var function equipment addition or replacement (such as static var systems, capacitor banks, individual unit excitation systems, etc), a change in the voltage control mode (such as going from power factor control to automatic voltage control, etc), exciter, voltage regulator, impedance compensator, or power system stabilizer settings change. Automatic changes in settings that occur due to changes in operating mode do not apply to Requirement R4.
R5. Each Generator Owner shall provide a written response to its Transmission Planner, within 90 calendar days following receipt of a technically justified\(^6\) unit request from the Transmission Planner to perform a model review of a unit or plant that includes one of the following: [Violation Risk Factor: Lower] [Time Horizon: Operations Planning]

- Details of plans to verify the model (in accordance with Requirement R2), or
- Corrected model data including the source of revised model data such as discovery of manufacturer test values to replace generic model data or updating of data parameters based on an on-site review of the equipment.

R6. Each Transmission Planner shall provide a written response to the Generator Owner within 90 calendar days of receiving the verified excitation control system or plant volt/var control function model information in accordance with Requirement R2 that the model is usable (meets the criteria specified in Parts 6.1 through 6.3) or is not usable.

6.1. The excitation control system or plant volt/var control function model initializes to compute modeling data without error,

6.2. A no-disturbance simulation results in negligible transients, and

6.3. For an otherwise stable simulation, a disturbance simulation results in the excitation control and plant volt/var control function model exhibiting positive damping.

If the model is not usable, the Transmission Planner shall provide a technical description of why the model is not usable. [Violation Risk Factor: Medium] [Time Horizon: Operations Planning]

C. Measures

M1. The Transmission Planner must have and provide the dated request for instructions or data, the transmitted instructions or data, and dated evidence of a written transmittal (e.g., electronic mail message, postal receipt, or confirmation of facsimile) as evidence that it provided the request within 90 calendar days in accordance with Requirement R1.

M2. The Generator Owner must have and provide dated evidence it verified each generator excitation control system or plant volt/var control function model according to Part 2.1 for each applicable unit and a dated transmittal (e.g., electronic mail message, postal receipt, or confirmation of facsimile) as evidence it provided the model, documentation, and data to its Transmission Planner, in accordance with Requirement R2.

M3. Evidence for Requirement R3 must include the Generator Owner’s dated written response containing the information identified in Requirement R3 and dated evidence

\(^6\) Technical justification is achieved by the Transmission Planner demonstrating that the simulated unit or plant response does not match the measured unit or plant response.
of transmittal (e.g., electronic mail message, postal receipt, or confirmation of facsimile) of the response.

M4. Evidence for Requirement R4 must include, for each of the Generator Owner’s applicable units for which system changes specified in Requirement R4 were made, a dated revised model data or plans to perform a model verification and dated evidence (e.g., electronic mail message, postal receipt, or confirmation of facsimile) it provided the revised model and data or plans within 180 calendar days of making changes.

M5. Evidence for Requirement R5 must include the Generator Owner’s dated written response containing the information identified in Requirement R5 and dated evidence (e.g., electronic mail message, postal receipt, or confirmation of facsimile) it provided a written response within 90 calendar days following receipt of a technically justified request.

M6. Evidence of Requirement R6 must include, for each model received, the dated response indicating the model was usable or not usable according to the criteria specified in Parts 6.1 through 6.3 and for a model that is not usable, a technical description; and dated evidence of transmittal (e.g., electronic mail message, postal receipt, or confirmation of facsimile) that the Generator Owner was notified within 90 calendar days of receipt of model information.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

The Regional Entity shall serve as the Compliance Enforcement Authority unless the applicable entity is owned, operated, or controlled by the Regional Entity. In such cases the ERO or a Regional entity approved by FERC or other applicable governmental authority shall serve as the CEA.

1.2. Data Retention

The following evidence retention periods identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the Compliance Enforcement Authority may ask an entity to provide other evidence to show that it was compliant for the full time period since the last audit.

The Generator Owner and Transmission Planner shall each keep data or evidence to show compliance as identified below unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation:

- The Transmission Planner shall retain the information/data request and provided response evidence of Requirements R1 and R6, Measures M1 and M6 for three calendar years from the date the document was provided.
- The Generator Owner shall retain the latest excitation control system or plant volt/var control function model verification evidence of Requirement R2, Measure M2.

- The Generator Owner shall retain the information/data request and provided response evidence of Requirements R3 through R5, and Measures M3 through M5 for three calendar years from the date the document was provided.

If a Generator Owner or Transmission Planner is found non-compliant, it shall keep information related to the non-compliance until mitigation is complete or approved or for the time specified above, whichever is longer.

The Compliance Enforcement Authority shall keep the last audit records and all requested and submitted subsequent audit records.

1.3. Compliance Monitoring and Assessment Processes

- Compliance Audit
- Self-Certification
- Spot Checking
- Compliance Investigation
- Self-Reporting
- Complaints

1.4. Additional Compliance Information

None
## 2. Violation Severity Levels

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<tr>
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<th>Moderate VSL</th>
<th>High VSL</th>
<th>Severe VSL</th>
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<tr>
<td>R1</td>
<td>The Transmission Planner provided the instructions and data to the Generator Owner more than 90 calendar days but less than or equal to 120 calendar days of receiving a written request.</td>
<td>The Transmission Planner provided the instructions and data to the Generator Owner more than 120 calendar days but less than or equal to 150 calendar days of receiving a written request.</td>
<td>The Transmission Planner provided the instructions and data to the Generator Owner more than 150 calendar days but less than or equal to 180 calendar days of receiving a written request.</td>
<td>The Transmission Planner failed to provide the instructions and data to the Generator Owner within 180 calendar days of receiving a written request.</td>
</tr>
<tr>
<td>R2</td>
<td>The Generator Owner provided its verified model(s), including documentation and data to its Transmission Planner after the timeframe specified in MOD-026 Attachment 1 but less than or equal to 90 calendar days late; OR The Generator Owner provided the Transmission Planner verified models that omitted one of the six Parts identified in Requirement R2, Subparts 2.1.1 through 2.1.6.</td>
<td>The Generator Owner provided its verified model(s), including documentation and data to its Transmission Planner more than 90 calendar days but less than or equal to 180 calendar days late as specified by the periodicity timeframe in MOD-026 Attachment 1. OR The Generator Owner provided the Transmission Planner verified models that omitted two of the six Parts identified in Requirement R2, Subparts 2.1.1 through 2.1.6.</td>
<td>The Generator Owner provided its verified model(s), including documentation and data to its Transmission Planner more than 180 calendar days but less than or equal to 270 calendar days late as specified by the periodicity timeframe in MOD-026 Attachment 1. OR The Generator Owner provided the Transmission Planner verified models that omitted three of the six Parts identified in Requirement R2, Subparts 2.1.1 through 2.1.6.</td>
<td>The Generator Owner provided its verified model(s), including documentation and data to its Transmission Planner more than 270 calendar days late to its Transmission Planner in accordance with the periodicity specified in MOD-026 Attachment 1. OR The Generator Owner failed to use model(s) acceptable to the Transmission Planner as specified in Requirement R2, Part 2.1. OR The Generator Owner provided the Transmission Planner verified model(s) but omitted four or more of the six parts identified in Requirement R2, Subparts 2.1.1 through 2.1.6.</td>
</tr>
</tbody>
</table>
Standard MOD-026-1 — Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Functions

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<td>R3</td>
<td>The Generator Owner provided a written response more than 90 calendar days but less than or equal to 120 calendar days of receiving written notice.</td>
<td>The Generator Owner provided a written response more than 120 calendar days but less than or equal to 150 calendar days of receiving written notice.</td>
<td>The Generator Owner provided a written response more than 150 calendar days but less than or equal to 180 calendar days of receiving written notice.</td>
<td>The Generator Owner failed to provide a written response within 180 calendar days of receiving written notice. OR The Generator Owner's written response failed to contain either the technical basis for maintaining the current model, or a list of future model changes, or a plan to perform another model verification.</td>
</tr>
<tr>
<td>R4</td>
<td>The Generator Owner provided revised model data or plans to perform model verification more than 180 calendar days but less than or equal to 210 calendar days of making changes to the excitation control system or plant volt/var control function that altered the equipment response characteristic.</td>
<td>The Generator Owner provided revised model data or plans to perform model verification more than 210 calendar days but less than or equal to 240 calendar days of making changes to the excitation control system or plant volt/var control function that altered the equipment response characteristic.</td>
<td>The Generator Owner provided revised model data or plans to perform model verification more than 240 calendar days but less than or equal to 270 calendar days of making changes to the excitation control system or plant volt/var control function that altered the equipment response characteristic.</td>
<td>The Generator Owner failed to provide revised model data or failed to provide plans to perform model verification within 270 calendar days of making changes to the excitation control system or plant volt/var control function that altered the equipment response characteristic.</td>
</tr>
<tr>
<td>R5</td>
<td>The Generator Owner provided a written response more than 90 calendar days but less than or equal to 120 calendar days to the Transmission Planner following receipt of a technically justified request to perform a model review of an applicable unit.</td>
<td>The Generator Owner provided a written response more than 120 calendar days but less than or equal to 150 calendar days to the Transmission Planner following receipt of a technically justified request to perform a model review of an applicable unit.</td>
<td>The Generator Owner provided a written response more than 150 calendar days but less than or equal to 180 calendar days to the Transmission Planner following receipt of a technically justified request to perform a model review of an applicable unit.</td>
<td>The Generator Owner failed to provide a written response to the Transmission Planner within 180 calendar days following receipt of a technically justified request to perform a model review of an applicable unit. OR The Generator Owner’s written response failed to include one of the sub bullets of Requirement R5.</td>
</tr>
<tr>
<td>R #</td>
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<td>Moderate VSL</td>
<td>High VSL</td>
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<tr>
<td>R6</td>
<td>The Transmission Planner provided a written response to the Generator Owner indicating whether the model is usable or not usable; including a technical description if the model is not usable, more than 90 calendar days but less than or equal to 120 calendar days of receiving verified model information; OR The Transmission Planner provided a written response to the Generator Owner within 90 calendar days indicating that the model is not usable; but did not include a technical description.</td>
<td>The Transmission Planner provided a written response to the Generator Owner indicating whether the model is usable or not usable; including a technical description if the model is not usable, more than 120 calendar days but less than or equal to 150 calendar days of receiving the verified model information; OR The Transmission Planner’s written response omitted confirmation for one of the specified model criteria listed in Requirement R6, Parts 6.1 through 6.3; OR The Transmission Planner provided a written response to the Generator Owner indicating that the model is not usable, but did not include a technical description and provided the response more than 90 calendar days but less than or equal to 120 calendar days of receiving verified model information.</td>
<td>The Transmission Planner provided a written response to the Generator Owner indicating whether the model is usable or not usable; including a technical description if the model is not usable, more than 150 calendar days but less than or equal to 180 calendar days of receiving the verified model information; OR The Transmission Planner’s written response omitted confirmation for two of the specified model criteria listed in Requirement R6, Parts 6.1 through 6.3; OR The Transmission Planner provided a written response to the Generator Owner indicating that the model is not usable, but did not include a technical description and provided the response more than 150 calendar days after receiving verified model information.</td>
<td>The Transmission Planner failed to provide a written response to the Generator Owner within 180 calendar days of receiving the verified model information; OR The Transmission Planner’s written response omitted confirmation for all specified model criteria listed in Requirement R6, Parts 6.1 through 6.3; OR The Transmission Planner provided a written response to the Generator Owner indicating that the model is not usable, but did not include a technical description and provided the response more than 150 calendar days after receiving verified model information.</td>
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E. Regional Variances

None.

F. Associated Documents

None.

**Version History**

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Action</th>
<th>Change Tracking</th>
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<tr>
<td>1</td>
<td>February 7, 2013</td>
<td>Adopted by NERC Board of Trustees</td>
<td>New</td>
</tr>
<tr>
<td>1</td>
<td>March 20, 2014</td>
<td>FERC Order issued approving MOD-026-1. (Order becomes effective for R1, R3, R4, R5, and R6 on 7/1/14. R2 becomes effective on 7/1/18.)</td>
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<tr>
<td>1</td>
<td>May 7, 2014</td>
<td>NERC Board of Trustees adopted revisions to VSLs in Requirement R6.</td>
<td>Revisions</td>
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<tr>
<td>1</td>
<td>November 26, 2014</td>
<td>FERC issued a letter order approved revisions to VSLs in Requirement R6.</td>
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G. References

The following documents contain technical information beyond the scope of this Standard on excitation control system functionality, modeling, and testing.

1. IEEE 421.1 Definitions for Excitation Systems for Synchronous Machines
3. IEEE 421.5 IEEE Recommended Practice for Excitation System Models for Power System Stability Studies


## MOD-026 Attachment 1

Excitation Control System or Plant Volt/Var Function Model Verification Periodicity

<table>
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<tr>
<th>Row Number</th>
<th>Verification Condition</th>
<th>Required Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Establishing the initial verification date for an applicable unit. (Requirement R2)</td>
<td>Transmit the verified model, documentation and data to the Transmission Planner on or before the Effective Date. Row 4 applies when calculating generation fleet compliance during the 10-year implementation period. See Section A5 for Effective Dates.</td>
</tr>
<tr>
<td>2</td>
<td>Subsequent verification for an applicable unit. (Requirement R2)</td>
<td>Transmit the verified model, documentation and data to the Transmission Planner on or before the 10-year anniversary of the last transmittal (per Note 1).</td>
</tr>
<tr>
<td>3</td>
<td>Initial verification for a new applicable unit or for an existing applicable unit with new excitation control system or plant volt/var control function equipment installed. (Requirement R2)</td>
<td>Transmit the verified model, documentation and data to the Transmission Planner within 365 calendar days after the commissioning date.</td>
</tr>
</tbody>
</table>
## MOD-026 Attachment 1

### Excitation Control System or Plant Volt/Var Function Model Verification Periodicity

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<td>4</td>
<td>Existing applicable unit that is equivalent to another unit(s) at the same physical location. AND Each applicable unit has the same MVA nameplate rating. AND The nameplate rating is ( \leq 350 \text{ MVA} ). AND Each applicable unit has the same components and settings. AND The model for one of these equivalent applicable units has been verified. (Requirement R2)</td>
<td>Document circumstance with a written statement and include with the verified model, documentation and data provided to the Transmission Planner for the verified equivalent unit. Verify a different equivalent unit during each 10-year verification period. Applies to Row 1 when calculating generation fleet compliance during the 10-year implementation period.</td>
</tr>
<tr>
<td>5</td>
<td>The Generator Owner has submitted a verification plan. (Requirement R3, R4 or R5)</td>
<td>Transmit the verified model, documentation and data to the Transmission Planner within 365 calendar days after the submittal of the verification plan.</td>
</tr>
</tbody>
</table>
## MOD-026 Attachment 1

**Excitation Control System or Plant Volt/Var Function Model Verification Periodicity**

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<tr>
<td>6</td>
<td>New or existing applicable unit does not include an active closed loop voltage or reactive power control function. (Requirement R2)</td>
<td>Requirement 2 is met with a written statement to that effect transmitted to the Transmission Planner. Perform verification per the periodicity specified in Row 3 for a “New Generating Unit” (or new equipment) only if active closed loop function is established. See Footnote 1 (see Section A.3) for clarification of what constitutes an active closed loop function for both conventional synchronous machines (reference Footnote 1a) and aggregate generating plants (reference Footnote 1b).</td>
</tr>
<tr>
<td>7</td>
<td>Existing applicable unit has a current average net capacity factor over the most recent three calendar years, beginning on January 1 and ending on December 31 of 5% or less. (Requirement R2)</td>
<td>Requirement 2 is met with a written statement to that effect transmitted to the Transmission Planner. At the end of this 10-year timeframe, the current average three year net capacity factor (for years 8, 9, and 10) can be examined to determine if the capacity factor exemption can be declared for the next 10-year period. If not eligible for the capacity factor exemption, then model verification must be completed within 365 calendar days of the date the capacity factor exemption expired. For the definition of net capacity factor, refer to Appendix F of the GADS Data Reporting Instructions on the NERC website.</td>
</tr>
</tbody>
</table>
## MOD-026 Attachment 1
### Excitation Control System or Plant Volt/Var Function Model Verification Periodicity

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**NOTES:**

**NOTE 1:** Establishing the recurring 10-year unit verification period start date:
The start date is the actual date of submittal of a verified model to the Transmission Planner for the most recently performed unit verification.

**NOTE 2:** Consideration for early compliance:
Existing generator excitation control system or plant volt/var control function model verification is sufficient for demonstrating compliance for a 10-year period from the actual transmittal date if either of the following applies:

- The Generator Owner has a verified model that is compliant with the applicable regional policies, guidelines or criteria existing at the time of model verification.
- The Generator Owner has an existing verified model that is compliant with the requirements of this standard.
* FOR INFORMATIONAL PURPOSES ONLY *

Effective Date of Standard: MOD-026-1 — Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Functions

United States

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<th>Requirement</th>
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