

**Compliance Questionnaire and**

**Reliability Standard Audit Worksheet**

**MOD-010-0 — Steady-State Data for Transmission System Modeling and Simulation of the Interconnected Transmission System**

**Registered Entity:** *(Must be completed by the Compliance Enforcement Authority)*

**NCR Number:** *(Must be completed by the Compliance Enforcement Authority)*

 **Applicable Function(s): TO, TP, GO and RP specified in the data requirements and reporting procedures of MOD-011-0\_R1**

**Auditors:**

**Disclaimer**

 NERC developed this Reliability Standard Audit Worksheet (RSAW) language in order to facilitate NERC’s and the Regional Entities’ assessment of a registered entity’s compliance with this Reliability Standard. The NERC RSAW language is written to specific versions of each NERC Reliability Standard. Entities using this RSAW should choose the version of the RSAW applicable to the Reliability Standard being assessed. While the information included in this RSAW provides some of the methodology that NERC has elected to use to assess compliance with the requirements of the Reliability Standard, this document should not be treated as a substitute for the Reliability Standard or viewed as additional Reliability Standard requirements. In all cases, the Regional Entity should rely on the language contained in the Reliability Standard itself, and not on the language contained in this RSAW, to determine compliance with the Reliability Standard. NERC’s Reliability Standards can be found on NERC’s website at <http://www.nerc.com/page.php?cid=2|20>. Additionally, NERC Reliability Standards are updated frequently, and this RSAW may not necessarily be updated with the same frequency. Therefore, it is imperative that entities treat this RSAW as a reference document only, and not as a substitute or replacement for the Reliability Standard. It is the responsibility of the registered entity to verify its compliance with the latest approved version of the Reliability Standards, by the applicable governmental authority, relevant to its registration status.

The NERC RSAW language contained within this document provides a non‑exclusive list, for informational purposes only, of examples of the types of evidence a registered entity may produce or may be asked to produce to demonstrate compliance with the Reliability Standard. A registered entity’s adherence to the examples contained within this RSAW does not necessarily constitute compliance with the applicable Reliability Standard, and NERC and the Regional Entity using this RSAW reserves the right to request additional evidence from the registered entity that is not included in this RSAW. Additionally, this RSAW includes excerpts from FERC Orders and other regulatory references. The FERC Order cites are provided for ease of reference only, and this document does not necessarily include all applicable Order provisions. In the event of a discrepancy between FERC Orders, and the language included in this document, FERC Orders shall prevail.

# Subject Matter Experts

Identify your company’s subject matter expert(s) responsible for this Reliability Standard. Include the person's title, organization and the requirement(s) for which they are responsible. Insert additional lines if necessary.

**Response: *(Registered Entity Response Required)***

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| --- | --- | --- | --- |
| **SME Name** | **Title** | **Organization** | **Requirement** |
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# Reliability Standard Language

**MOD-010-0 — Steady-State Data for Transmission System Modeling and Simulation of the Interconnected Transmission System**

**Purpose:** To establish consistent data requirements, reporting procedures, and system

models to be used in the analysis of the reliability of the Interconnected Transmission Systems.

**Applicability:**

TO, TP, GO and RP specified in the data requirements and reporting procedures of MOD-011-0\_R1

**NERC BOT Approval Date: 2/8/2005**

**FERC Approval Date: 3/16/2007**

**Reliability Standard Enforcement Date in the United States: 6/18/2007**

**Requirements**:

**R1.** The Transmission Owners, Transmission Planners Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-011-0\_R1) shall provide appropriate equipment characteristics, system data, and existing and future Interchange Schedules in compliance with its respective Interconnection Regional steady-state modeling and simulation data requirements and reporting procedures as defined in Reliability Standard

MOD-011-0\_R1.

**Describe, in narrative form, how you meet compliance with this requirement: *(Registered Entity Response Required)***

# R1 Supporting Evidence and Documentation

**Response: *(Registered Entity Response Required)***

|  |  |
| --- | --- |
|  |   **Provide the following:** **Document Title and/or File Name, Page & Section, Date & Version** |
| **Title** | **Date** | **Version** |
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| *Audit Team: Additional Evidence Reviewed:* |  |  |
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***This section must be completed by the Compliance Enforcement Authority.***

**Compliance Assessment Approach Specific to MOD-010-0 R1.**

\_\_\_Verify the entity provided appropriate data in compliance with its respective Interconnection Regional steady state modeling and simulation data requirements and reporting procedures shall include:

 \_\_\_Equipment characteristics

 \_\_\_System data

 \_\_\_Existing and future interchange schedules

**Detailed notes:**

**R2.** The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-011-0\_R1) shall provide this steady-state modeling and simulation data to the Regional Reliability Organizations, NERC, and those entities specified within Reliability Standard MOD-011-0\_R1. If no schedule exists, then these entities shall provide the data on request (30 calendar days).

**Describe, in narrative form, how you meet compliance with this requirement: *(Registered Entity Response Required)***

# R2 Supporting Evidence and Documentation

**Response: *(Registered Entity Response Required)***

|  |  |
| --- | --- |
|  |   **Provide the following:** **Document Title and/or File Name, Page & Section, Date & Version** |
| **Title** | **Date** | **Version** |
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| *Audit Team: Additional Evidence Reviewed:* |  |  |
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***This section must be completed by the Compliance Enforcement Authority.***

**Compliance Assessment Approach Specific to MOD-010-0 R2.**

\_\_\_Verify the entity provided appropriate data to the RRO, NERC and those entities specified within Reliability Standard MOD-011-0 R1.

**Detailed notes:**

# Supplemental Information

**Other ‑** The list of questions above is not all inclusive of evidence required to show compliance with the Reliability Standard. Provide additional information here**, as necessary that** demonstrates compliance with this Reliability Standard.

  **Entity** **Response: *(Registered Entity Response)***

# Compliance Findings Summary (to be filled out by auditor)

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| **Req.** | **C** | **PV** | **OEA** | **NA** | **Statement** |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |

**Excerpts From FERC Orders -- For Reference Purposes Only**

**Updated Through November 28, 2008**

**MOD-010-0**

 **Order 693**

 http://www.nerc.com/files/order\_693.pdf

 P1006 "The Modeling, Data and Analysis group of Reliability Standards is intended to

 standardize methodologies and system data needed for traditional transmission

 system operation and expansion planning, reliability assessment and the

 calculation of available transfer capability (ATC) in an open access environment.

 The 23 MOD Reliability Standards may be grouped into four distinct categories.

 The first category covers methodology and associated documentation, review

 and validation of Total Transfer Capability (TTC), ATC, Capacity Benefit

 Margin (CBM) and Transmission Reliability Margin (TRM) calculations.

 (Footnote 317: MOD‑001‑0 through MOD‑009‑0.) The second category covers

 steady‑state and dynamics data and models.(Footnote 318: MOD‑010‑0 through

 MOD‑015‑0.) The third category covers actual and forecast demand data.

 (Footnote 319: MOD‑016‑0 through MOD‑021‑0.) The fourth category covers

 verification of generator real and reactive power capability. (Footnote 320:

 MOD‑024‑1 through MOD‑025‑1.)"

 P1011 "We reject ISO/RTO Council and ISO‑NE’s request that we defer our approval

 of Reliability Standards from the MOD group that incorporate references to the

 13 fill‑inthe‑blank standards. While we understand ISO/RTO Council and

 ISO‑NE’s concern about cross‑referencing pending Reliability Standards, the

 data that is needed will be provided as described in the Common Issues section.

 In the interim, compliance with the pending Reliability Standards should

 continue on a voluntary basis, and the Commission considers compliance with

 them a matter of good utility practice."

 P1131 “The purpose of this Reliability Standard is to establish consistent data

 requirements, reporting procedures and system models for use in reliability

 analysis. MOD‑010‑0 requires the transmission owner, transmission planner,

 generator owner and resource planner to provide steady‑state data, such as

 equipment characteristics, system data, and existing and future interchange

 schedules to the regional reliability organization, NERC, and other specified

 entities.”

 P1148 “…require filing of all of the contingencies that are used in performing

 steady‑state system operation and planning studies. We believe that access to

 such information will enable planners to accurately study the effects of

 contingencies occurring in neighboring systems on their own systems, which will

 benefit reliability. Because of the lack of information on contingency outages

 and the automatic actions that result from these contingencies, planners have not

 been able to analyze neighboring conditions accurately, thereby potentially

 jeopardizing reliability on their own and surrounding systems…”

 P1152 “…we determine that those data that a company considers confidential,

 commercially‑sensitive or security‑sensitive should be released in accordance

 with the CEII process or subject to confidentiality agreements…”

 P1154 “We agree … that the functional entity responsible for providing the list of

 contingencies in performing planning studies should be the transmission planner,

 instead of the transmission owner, as proposed in the NOPR...”

**Revision History**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Reviewers** | **Revision Description** |
| 1 | October 2009 | RSAW Working Group | New Document. |
| 1 | December 2010 | QRSAW WG | Revised Findings Table, modified Supporting Evidence tables, and added Revision History. |
| 1 | January 2011 | Craig Struck | Reviewed for format consistency and content. |
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