Standard Development Roadmap

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

Development Steps Completed:

1. SAC authorized posting TTC/ATC/AFC SAR development June 20, 2005.
2. SAC authorized the SAR to be development as a standard on February 14, 2006.
3. SC appointed a Standard Drafting Team on March 17, 2006.
4. SDT posted first draft for comment from May 25–June 25, 2007

Description of Current Draft:

This is the second draft of the proposed standard posted for stakeholder comments. This draft includes the modifications identified in the SAR with consideration of stakeholder comments from the first posting and applicable FERC directives from FERC Order 693 and Order 890.

Future Development Plan:

Anticipated Actions	Anticipated Date
1. Respond to comments.	February 1, 2008
2. Post for 30-day pre-ballot review.	February 1, 2008
3. First ballot of standard.	March 3, 2008
4. Respond to comments.	April 10, 2008
5. Recirculation ballot.	April 10, 2008
6. 30 Day posting before board adoption.	March 2, 2008
7. Board adopts MOD-001-1.	April 24, 2008

Definitions of Terms Used in Standard

This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.

Transmission Reliability Margin Implementation Document (TRMID): A document that describes the implementation of a Transmission Reliability Margin methodology.

A. Introduction

1. **Title:** **Transmission Reliability Margin Calculation Methodology**

2. **Number:** **MOD-008-1**

3. **Purpose:** To promote the consistent and transparent calculation, verification, preservation, and use of Transmission Reliability Margin (TRM) to ensure reliable system operations.

4. **Applicability:**

   4.1. Transmission Operator.

   4.2. Transmission Service Provider.

5. **Proposed Effective Date:** First day of the first calendar quarter that is twelve months beyond the date that all six (MOD-001-1, MOD-004-1, MOD-008-1, MOD-028-1, MOD-029-1, MOD-030-1)ATC-related standards are approved by applicable regulatory authorities, or in those jurisdictions where regulatory approval is not required, the standard becomes effective on the first day of the first calendar quarter that is twelve months beyond the date the set of standards is approved by the NERC Board of Trustees.

B. Requirements

R1. Each Transmission Operator shall prepare and keep current a TRM Implementation Document (TRMID) that includes, as a minimum, the following information: [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning*]

R1.1. Identification of (on each of its respective Posted Paths or Flowgates) each of the following components of uncertainty if used in calculating TRM, and a description of how that component is used to calculate a TRM value:

- Aggregate Load forecast uncertainty (not included in determining generation reliability requirements).
- Load distribution uncertainty.
- Forecast uncertainty in Transmission system topology (including maintenance outages).
- Allowances for parallel path (loop flow) impacts.
- Allowances for simultaneous path interactions.
- Variations in generation dispatch (including maintenance outages and location of future generation).
- Short-term System Operator response (Operating Reserve actions not exceeding a 59-minute window).
- Reserve sharing requirements.
- Inertial response and frequency bias.

R1.2. A statement to confirm that it shall use assumptions in calculating TRM that are consistent with those assumptions that are used in the Transmission planning process for the corresponding time periods.

R1.3. The description of the method of TRM allocation across Posted Paths or Flowgates.

R1.4. The identification of the TRM calculation used for the following time periods:

R1.4.1. Same day and real-time.

R1.4.2. Day-ahead and pre-schedule.

R1.4.3. Beyond day-ahead and pre-schedule, up to thirteen months ahead.

R1.5. If TRM is zero for all the time periods listed in R1.4, a statement of that practice.

R2. The Transmission Operator shall only use the components of uncertainty from R1.1 to calculate TRM, and shall not include any of the components of Capacity Benefit Margin (CBM). [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning*]

R3. Each Transmission Operator shall provide its TRMID, and any underlying documentation, work papers and load flow base cases used to determine TRM, to all of the following within seven calendar days of a request: [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning*]

R3.1. The Transmission Service Provider responsible for tariff administration over the Facilities operated by the Transmission Operator

R3.2. The Reliability Coordinator responsible for oversight of the Facilities for which the Transmission Service Provider offers service.

R3.3. The Planning Coordinator responsible for oversight of the Facilities for which the Transmission Service Provider offers service.

R4. Each Transmission Service Provider shall make available (within seven calendar days of a documented request for such information) the TRMIDs used by its Transmission Operator(s), and any underlying documentation, work papers and load flow base cases used to determine TRM, to Transmission Service Providers who have made a request for such information. [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning*]

R5. Each Transmission Operator shall calculate, at least once every 13 months (in accordance with the definitions in its TRMID), a TRM value for the following time periods (on each Posted Path or Flowgate) and shall provide these TRM values to its Transmission Service Provider(s) and Transmission Planner(s) within seven calendar days of the calculation: [*Violation Risk Factor: Medium*] [*Time Horizon: Operations Planning*]

R5.1. Same day and real-time.

R5.2. Day-ahead and pre-schedule.

R5.3. Beyond the day-ahead and pre-schedule, up to thirteen (13) months ahead.

C. Measures

M1. The Transmission Operator shall provide its current TRMID that contains the information described in R1to show its compliance with R1. (R1)

M2. The Transmission Operator shall provide evidence including its TRMID, TRM values, CBM values, CBMID, and other evidence, (such as written documentation, study reports, and supporting information) to demonstrate that its TRM values did not include any elements of uncertainty beyond those defined in R1.1 and to show that it did not include any of the components of CBM. (R2)

M3. The Transmission Operator shall provide a dated copy of any request for its TRMID or associated documentation, and evidence such as copies of emails or postal receipts that show the recipient, date and contents as evidence that the requested documentation was provided within the specified timeframe to the entities described in R3. (R3)

M4. The Transmission Service Provider shall provide a dated copy of any request for its Transmission Operator's TRMID or associated documentation, and evidence such as copies of emails or postal receipts that show the recipient, date and contents as evidence that the requested documentation was provided within the specified timeframe to the requesting entity as described in R4. (R4)

M5. The Transmission Operator shall provide evidence (such as logs and data that it determined TRM at least once every thirteen months for each of the listed time periods and provided it to their Transmission Service Provider(s) and Transmission Planner(s) as described in R5. (R5)

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

Regional Entity.

1.2. Compliance Monitoring Period and Reset Time Frame

Not applicable.

1.3. Data Retention

- The Transmission Operator shall have its current, in-force TRMID and any TRMIDs in force since last compliance audit period for R1.
- The Transmission Operator shall retain evidence to show compliance with R2, R3, and R5 for the most recent three calendar years plus the current year.
- The Transmission Service Provider shall retain evidence to show compliance with R4 for the most recent three calendar years plus the current year.
- If a responsible entity is found non-compliant, it shall keep information related to the non-compliance until found compliant.
- The Compliance Enforcement Authority shall keep the last audit records and all requested and submitted subsequent audit records.

1.4. Compliance Monitoring and Enforcement Processes

Any of the following may be used:

- Compliance Audits
- Self-Certifications
- Spot Checking
- Compliance Violation Investigations
- Self-Reporting
- Complaints

1.5. Additional Compliance Information

None.

2. Violation Severity Levels