



May 2, 2017

Version: 3.0

Transmission Reliability Margin Implementation Document (TRMID)

Ref: MOD-008-1, NERC Adopted 8/26/2008, FERC Approved 11/24/2009

1. Purpose:

The Transmission Reliability Margin Implementation Document (TRMID) provides the documentation of PRPA's use of Transmission Reliability Margin (TRM) in the calculation of Available Transfer Capability.

2. Definitions:

2.1. There are no terms specific to PRPA used in this document, refer to the applicable NERC standards and Glossary of Terms for terminology definitions.

3. Implementation:

3.1. Components of Uncertainty Used in Establishing TRM

3.1.1. Table 1 lists the Components of Uncertainty that may be used in establishing TRM value and PRPA's consideration of each.

Table 1:

Component of Uncertainty	PRPA TRM Consideration
Aggregate Load Forecast	Not Used
Load Distribution Uncertainty	Not Used
Forecast uncertainty in Transmission system topology (including, but not limited to, forced or unplanned outages and maintenance outages).	Not Used
Allowances for parallel path (loop flow) impacts.	Not Used
Allowances for simultaneous path interactions.	There are no simultaneous path interactions.
Variations in generation dispatch (including, but not limited to, forced or unplanned outages, maintenance outages and location of future generation).	Not Used
Short-term System Operator response (Operating Reserve actions).	Not Used
Reserve sharing requirements.	PRPA carries a portion of PSCO's required reserves per the <i>Service Agreement for Balancing Authority Ancillary Services</i> .
Inertial response and frequency bias.	Not Used

3.2. The considerations listed in Table 1 apply to all ATC Paths for which a TRM value is determined. TRM is allocated across the ATC Path for which reserves are to be delivered.

3.3. TRM will be determined by the same calculation across the following time periods:

3.3.1. Same day and real-time.

3.3.2. Day-ahead and pre-schedule.

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

3.4. PRPA does not use any Capacity Benefit Margin (CBM) in its ATC calculation and no component of CBM is used in the establishment of TRM.

3.5. TRM values will be determined at least once every thirteen months based on the current maximum reserve requirement.

3.6. TRM in Firm and Non-Firm ATC calculations:

3.6.1. TRM will be used in the calculation of Firm ATC for an ATC Path for a specified period.

3.6.2. TRMu will be used in the calculation of Non-Firm ATC for an ATC Path for a specified period when not released for sale (unreleased) as Non-Firm capacity.

Version	Date	Action	Change Tracking
1	3/28/2011	Created Version 1.0	New
2	4/19/2016	Annual Review, updated format, updated reserve sharing language. Established TRM values in accordance with the TRMID.	Review/Update
3	5/2/2017	Annual Review, updated reserve sharing requirement language. Established TRM values in accordance with the TRMID.	Review/Update