

Introduction

- 1. Title:** Documentation of Total Transfer Capability and Available Transfer Capability Calculation Methodologies
- 2. Number:** MOD-001-0
- 3. Purpose:** To promote the consistent and uniform application of Transfer Capability calculations among transmission system users, the Regional Reliability Organization shall develop methodologies for calculating Total Transfer Capability (TTC) and Available Transfer Capability (ATC) that comply with NERC definitions for TTC and ATC, NERC Reliability Standards, and applicable Regional criteria.
- 4. Applicability:**
 - 4.1.** Regional Reliability Organization
- 5. Effective Date:** April 1, 2005

B. Requirements

- R1.** Each Regional Reliability Organization, in conjunction with its members, shall develop and document a Regional TTC and ATC methodology. (Certain systems that are not required to post ATC values are exempt from this standard.) The Regional Reliability Organization's TTC and ATC methodology shall include each of the following nine items, and shall explain its use in determining TTC and ATC values:
 - R1.1.** A narrative explaining how TTC and ATC values are determined.
 - R1.2.** An accounting for how the reservations and schedules for firm (non-recallable) and non-firm (recallable) transfers, both within and outside the Transmission Service Provider's system, are included.
 - R1.3.** An accounting for the ultimate points of power injection (sources) and power extraction (sinks) in TTC and ATC calculations.
 - R1.4.** A description of how incomplete or so-called partial path transmission reservations are addressed. (Incomplete or partial path transmission reservations are those for which all transmission reservations necessary to complete the transmission path from ultimate source to ultimate sink are not identifiable due to differing reservation priorities, durations, or because the reservations have not all been made.)
 - R1.5.** A requirement that TTC and ATC values shall be determined and posted as follows:
 - R1.5.1.** Daily values for current week at least once per day.
 - R1.5.2.** Daily values for day 8 through the first month at least once per week.
 - R1.5.3.** Monthly values for months 2 through 13 at least once per month.
 - R1.6.** Indication of the treatment and level of customer demands, including interruptible demands.
 - R1.7.** A specification of how system conditions, limiting facilities, contingencies, transmission reservations, energy schedules, and other data needed by Transmission Service Providers for the calculation of TTC and ATC values are shared and used within the Regional Reliability Organization and with neighboring interconnected electric systems, including adjacent systems, subregions, and Regional Reliability

Organizations. In addition, specify how this information is to be used to determine TTC and ATC values. If some data is not used, provide an explanation.

- R1.8.** A description of how the assumptions for and the calculations of TTC and ATC values change over different time (such as hourly, daily, and monthly) horizons.
- R1.9.** A description of the Regional Reliability Organization's practice on the netting of transmission reservations for purposes of TTC and ATC determination.
- R2.** The Regional Reliability Organization shall make the most recent version of the documentation of its TTC and ATC methodology available on a Web site accessible by NERC, the Regional Reliability Organizations, and transmission users.

C. Measures

- M1.** The Regional Reliability Organization shall provide evidence that its most recent TTC and ATC methodology documentation meets Reliability Standard MOD-001-0_R1.
- M2.** The Regional Reliability Organization shall provide evidence that its TTC and ATC methodology is available on a Web site accessible by NERC, the Regional Reliability Organizations, and transmission users.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Compliance Monitor: NERC.

1.2. Compliance Monitoring Period and Reset Timeframe

Available on a Web site accessible by NERC, the Regional Reliability Organizations, and transmission users.

1.3. Data Retention

None identified.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

2.1. Level 1: The Regional Reliability Organization's documented TTC and ATC methodology does not address one or two of the nine items required for documentation under Reliability Standard MOD-001-0_R1.

2.2. Level 2: Not applicable.

2.3. Level 3: Not applicable.

2.4. Level 4: The Regional Reliability Organization's documented TTC and ATC methodology does not address three or more of the nine items required for documentation under Reliability Standard MOD-001-0_R1 or the Regional Reliability Organization does not have a documented TTC and ATC methodology available on a Web site in accordance with Reliability Standard MOD-001-0_R2.

E. Regional Differences

1. None identified.

Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New
0	January 13, 2006	Fixed numbering from R.5.1.1, R5.1.2., and R5.1.3 to R1.5.1., R1.5.2., and R1.5.3. Changed “website” and “web site” to “Web site.”	Errata