

B. Transmission Planning, cont.

Transmission Planning Reliability Rules

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B.1: Transmission System Planning Performance Requirements

A. Reliability Rule

Transmission facilities in the *NYS Bulk Power System* shall be planned to operate reliably over a broad spectrum of system conditions and following a wide range of contingencies.

1. Associated NERC and NPCC Standards and Criteria:

NPCC: Directory 1

NERC: TPL-001

2. Applicability: NYISO

B. Requirements

R1. Transmission facilities in the *NYS Bulk Power System* shall be planned to meet the respective performance requirements in Table B-1 and supplemental performance requirements in Table B-2 for the *contingency* events as specified in Table B-1.

R1.1. Credible combinations of system conditions which stress the system shall be modeled, including load forecast, internal *NYCA* and inter-Area and transfers, transmission configuration, active and reactive *resources*, generation availability, and other dispatch scenarios. All reclosing facilities shall be assumed in service unless it is known that such facilities will be rendered inoperative.

R2. The impact of the extreme *contingency* events listed in Table B-3 shall be assessed.

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- R3.** Extreme System Conditions, events that have a low probability of occurrence, shall be assessed, one condition at a time, to determine the impact of these conditions on expected *steady-state* and dynamic system performance. These assessments shall provide an indication of system robustness or the extent of a widespread adverse system response. The conditions to be assessed are listed in the “Extreme System Conditions” category in Table B-3.
- R4.** *Fault duty* levels shall be planned to be within appropriate equipment *ratings*. *Fault duty* levels shall be determined with all generation and all transmission facilities in service.
- R4.1** Determination of *fault duty* levels shall be with due regard to *fault* current limiting series reactor protocols.

C. Compliance

1. Measures

- M1.** The NYISO shall maintain procedures for implementing the transmission planning criteria in R1 to through R4.

2. Levels of Non-Compliance

2.1 For Measure 1

Level 1: Not applicable.

Level 2: Not applicable.

Level 3: Not applicable.

Level 4: The *NYISO* did not maintain procedures for implementing the transmission planning criteria in R1 through R4, in accordance with M1.

3. Compliance Process

3.1 Compliance Monitoring Responsibility

- M1: RCMS

3.2 Compliance Documentation Reporting Frequency