

Standard FAC-001-0 — Facility Connection Requirements

A. Introduction

1. **Title:** Facility Connection Requirements
2. **Number:** FAC-001-0
3. **Purpose:** To avoid adverse impacts on reliability, ~~Transmission-Bulk Electric System Facility O~~wners must establish facility connection and performance requirements.
4. **Applicability:**
 - ~~4.1.~~ 4.1. Transmission Owner
 - ~~4.1.4.2.~~ 4.1.4.2. Generator Owner
5. **Effective Date:** April 1, 2005

Note from the Project 2010-07 SDT: The redline changes included in this document are the work of the Project 2010-07 SDT and are provided as a companion to the team's White Paper; the aim is to provide an example to convey the direction of our proposal. This is not intended to be a comprehensive rewrite of the standard.

B. Requirements

- R1. The Transmission Owner shall document, maintain, and publish facility connection requirements to ensure compliance with NERC Reliability Standards and applicable Regional Reliability Organization, subregional, Power Pool, and individual Transmission Owner planning criteria and facility connection requirements. The Transmission Owner's facility connection requirements shall address connection requirements for:
 - R1.1. Generation facilities,
 - R1.2. Transmission facilities, and
 - R1.3. End-user facilities
- R2. The Transmission Owner's facility connection requirements shall address, but are not limited to, the following items:
 - R2.1. Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:
 - R2.1.1. Procedures for coordinated joint studies of new facilities and their impacts on the interconnected transmission systems.
 - R2.1.2. Procedures for notification of new or modified facilities to others (those responsible for the reliability of the interconnected transmission systems) as soon as feasible.
 - R2.1.3. Voltage level and MW and MVAR capacity or demand at point of connection.
 - R2.1.4. Breaker duty and surge protection.
 - R2.1.5. System protection and coordination.
 - R2.1.6. Metering and telecommunications.
 - R2.1.7. Grounding and safety issues.

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- R2.1.8. Insulation and insulation coordination.
- R2.1.9. Voltage, Reactive Power, and power factor control.
- R2.1.10. Power quality impacts.
- R2.1.11. Equipment Ratings.
- R2.1.12. Synchronizing of facilities.
- R2.1.13. Maintenance coordination.
- R2.1.14. Operational issues (abnormal frequency and voltages).
- R2.1.15. Inspection requirements for existing or new facilities.
- R2.1.16. Communications and procedures during normal and emergency operating conditions.

R3. The Transmission Owner shall maintain and update its facility connection requirements as required. The Transmission Owner shall make documentation of these requirements available to the users of the transmission system, the Regional Reliability Organization, and NERC on request (five business days).

R4. Generator Owner that receives an interconnection request for its facility shall, within 45 days of such a request, be required to comply with requirements R1, R2, and R3 for the facility for which it received the interconnection request.

~~R3.~~

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C. Measures

M1. The Transmission Owner shall make available (to its Compliance Monitor) for inspection evidence that it met all the requirements stated in Reliability Standard FAC-001-0_R1.

M2. The Transmission Owner shall make available (to its Compliance Monitor) for inspection evidence that it met all requirements stated in Reliability Standard FAC-001-0_R2.

M3. The Transmission Owner shall make available (to its Compliance Monitor) for inspection evidence that it met all the requirements stated in Reliability Standard FAC-001-0_R3.

~~M3-M4.~~ The Generator Owner that receives an interconnection request for its facility shall make available (to its Compliance Monitor) for inspection evidence that it met the requirements stated in Reliability Standard FAC-001-0_R4.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Compliance Monitor: Regional Reliability Organization.

1.2. Compliance Monitoring Period and Reset Timeframe

On request (five business days).

1.3. Data Retention

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None specified.

1.4. Additional Compliance Information

None.

2. Levels of Non-Compliance

- 2.1. Level 1:** Facility connection requirements were provided for generation, transmission, and end-user facilities, per Reliability Standard FAC-001-0_R1, but the document(s) do not address all of the requirements of Reliability Standard FAC-001-0_R2.
- 2.2. Level 2:** Facility connection requirements were not provided for all three categories (generation, transmission, or end-user) of facilities, per Reliability Standard FAC-001-0_R1, but the document(s) provided address all of the requirements of Reliability Standard FAC-001-0_R2.
- 2.3. Level 3:** Facility connection requirements were not provided for all three categories (generation, transmission, or end-user) of facilities, per Reliability Standard FAC-001-0_R1, and the document(s) provided do not address all of the requirements of Reliability Standard FAC-001-0_R2.
- 2.4. Level 4:** No document on facility connection requirements was provided per Reliability Standard FAC-001-0_R3.

E. Regional Differences

- 1. None identified.

Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New