



NYISO System Restoration Tariff Revisions

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Background (1 of 2)

- Prior to July 2016, NERC standards were not applicable to NY Transmission Owner Black Start testing requirements
- Black Start testing requirements for Con Edison were defined by NYSRC Rules and included in the NYISO Tariff
- As of July 2016, Con Edison is registered as a NERC Transmission Operator, and NERC Standard EOP-005 is applicable to Con Edison Black Start testing

Background (2 of 2)

- NYSRC adjusted its Black Start testing requirements to conform to NERC EOP-005 and directed the NYISO to adjust its tariff and procedures accordingly (PRR 133)
- The System Restoration Manual was revised in April to incorporate the new Con Ed Black Start testing requirements.
- The NYISO is proposing conforming tariff changes to implement PRR 133 and an additional ministerial change.

Overview of Tariff Changes

- NYISO proposes to change only the treatment of Con Edison Black Start testing requirements in the Tariff. All other aspects of administering the Con Ed Black Start program remain unchanged.
- The Tariff will reference the existence of mandatory testing requirements applicable to the Con Edison Black Start Program in ISO procedures.
 - The Testing Requirements are now incorporated in the System Restoration Manual.

Description of Tariff Changes

- Redlined and clean copies of the Tariff changes are included in the meeting materials.
- **The tariff changes consist of:**
 - Deleting “Rate Schedule 5 Appendix I Testing Criteria for Black Start Capability Tests”
 - Related changes to “Rate Schedule 5 Appendix II” to “Appendix I”
 - Related changes to 15.5.4.1.2 “Generator Testing and Training Requirements”
 - Ministerial changes to Section 15.5.4.1.3.1

Overview of Program Changes (1 of 2)

NYISO Tariff related

- Annual Black Start testing
 - Partial testing of steam units for alternate years eliminated
 - All Black Start Resources must fully test, every year

- Uniform testing for Black Start units to energize a transmission bus
 - Synchronization testing for steam units eliminated
 - Post test SRE running of the steam units eliminated, as it would require synchronization

Overview of Program Changes (2 of 2)

Non-Tariff Con Ed black start testing procedure changes

- “Each Transmission Operator shall have Blackstart Resource testing requirements to verify that each Blackstart Resource is capable of meeting the requirements of its restoration plan.” NERC EOP-005 R9
 - Resource specific Con Ed testing requirements have been revised.
 - The Black Start Resource requirements to meet the Con Ed Restoration plan are Critical Electric Infrastructure Information (CEII) and plant specific.
 - As CEII, detailed, plant-specific testing requirements are not amenable for inclusion in publicly posted tariffs or manuals.

15.5.4.1.2 Generator Testing and Training Requirements

Revised Language:

A Generator shall conduct an annual Black Start Capability Test of each unit committed to provide Restoration Services under the Consolidated Edison Plan in accordance with the test protocols **required by the Reliability Rules and applicable reliability standards and set forth in ISO Procedures.** ~~set forth in Appendix I to this Rate Schedule~~

Rate Schedule 5 Appendix II

Revised Language:

Rate Schedule 5. Appendix II Restoration Services Certification Form

[Name of Generator] hereby certifies that the [name/location of unit] performed a Black Start Capability Test on [date] ~~in accordance with the ISO Procedures~~ and [successfully completed/did not complete] this test in accordance ~~with the test protocols set forth in Appendix I of Rate Schedule 5 of the ISO Market Services Tariff.~~ **with the applicable ISO Procedures.**



15.5.4.1.2 Generator Testing and Training Requirements

Revised Language:

~~By May 1st of each year, t~~The ISO shall calculate the annual Restoration Services payment amount for each Generator's facility for the compensation period of May 1 of ~~that each~~ year through the following April 30;

Transition Period

- NYISO has adopted the NERC testing requirements in the System Restoration Manual while tariff changes are pending at FERC to permit Con Edison to comply with NERC EOP-005
- While the tariff changes are pending, the testing provisions in the tariff will remain permissible for compensation purposes
 - Testing in accordance with the existing tariff provisions during the transition will qualify a Generator for compensation, but does not necessarily equate to the ongoing continued inclusion in the Con Edison System Restoration Plan

Next Steps

- Stakeholder Review for Tariff Revisions and System Restoration Manual
 - MC Approval of Tariff Revisions
 - NYISO Board Approval and FERC Filing

The Mission of the New York Independent System Operator is to:

- Serve the public interest and
- Provide benefit to stakeholders by
 - Maintaining and enhancing regional reliability
 - Operating open, fair and competitive wholesale electricity markets
 - Planning the power system for the future
 - Providing factual information to policy makers, stakeholders and investors in the power system



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