

# NYISO Certification

## Description:

### NYSRC Reliability Rule Reference (No. and Name)

#### F.1: NYCA System Restoration Plan

### NYSRC Requirement(s) for which compliance is being certified

**R3.** Each *Black Start Provider* shall develop and implement appropriate test procedures in accordance with R1, R2, and NYISO requirements and procedures to ensure those *black start facilities* that are included in the NYISO's and *Transmission Owner's* SRPs are able to perform their intended functions. These *black start* testing requirements shall include:

**R3.1.** Gas turbine, combined cycle, and hydro black start units:

Each *Black Start Provider* shall complete a successful test of the startup and operation of each of those black start facilities included in the NYISO and *Transmission Owner* SRPs for each *Capability Year*.

The NYISO will specify the number of units within a *black start facility* that shall be tested annually.

Steam black start units:

Each *Black Start Provider* shall complete a successful test of the startup and synchronization to the transmission system of each unit included in the NYCA SRP every three *Capability Years*.

**R3.2.** Completion of successful tests requiring isolation from the transmission system, but not requiring startup and synchronization with the transmission system, shall be conducted during each intervening *Capability Year*. This intervening year test shall be conducted as follows: 1) a *black start* gas turbine isolated from the transmission system shall energize the internal light and power bus of the steam *black start* unit; and 2) auxiliary loads required to introduce fire into the boiler (fans, pumps, etc.) shall be added to the internal light and power bus. The intervening year test does not require fire in the boiler or synchronization to the transmission system.

The NYISO will specify which steam units shall be tested during each *Capability Year* in accordance with the above testing requirements.

**R3.3.** With due regard for *reliability* considerations and subject to approval by the *Transmission Owner* and the NYISO, a test performed by *black start facilities* in the *Transmission Owner's* SRP within one month beyond the *Capability Year* test

period, or longer in force majeure cases, shall be considered a valid test for that *Capability Year*. Each *Black Start Provider* shall provide documentation of these test results to the appropriate entity in accordance with *NYISO* and *Transmission Owner* procedures.

**R3.4.** Each *Black Start Provider* shall annually provide a letter to the *NYISO* confirming that it identifies and maintains a list of critical components in its facilities (i.e., batteries, diesel back-up generators, inverters etc.) and performs tests to verify the condition of these critical components in accordance with good industry practice. Test results will be provided to the *NYISO* upon request.

**R3.5.** *Black Start Providers* shall attend *NYISO* and *Transmission Owner* restoration training as required.

### Compliance Monitoring Process

#### Compliance Monitoring Responsibility:

- M1: RCMS

#### Compliance Documentation Reporting Frequency:

- M2: *NYISO*/RCMS

#### Compliance Reporting Requirements:

- M3: *NYISO*/RCMS

### Measure No.

<input checked="" type="checkbox"/> Full Compliance	<p><b>M3.</b> As defined in R1 and R3, the <i>NYISO</i> certified that for the <i>Capability Year</i> specified by the <i>NYSRC</i>: (1) it received the annual letter from each <i>Black Start Provider</i> confirming that it maintained a list of critical components and tests these components accordingly, (2) it received sufficient documentation from each <i>Black Start Provider</i> showing that the <i>Black Start Provider</i> developed required test procedures and accordingly successfully tested its black start facilities for each <i>Capability Year</i>, and (3) each <i>Black Start Provider</i> met <i>NYISO</i> training requirements.</p>
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### Levels of Non-Compliance

<input type="checkbox"/> Level 1	<p><b>M2.</b> The <i>NYISO</i> certified that, for the <i>Capability Year</i> specified by the <i>NYSRC</i>, one <i>Black Start Provider</i> did not provide a letter to the <i>NYISO</i> satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with R1, R2, and R3, and <i>NYISO</i> or <i>Transmission Owner</i></p>
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	procedures.
___ Level 2	M2. The <i>NYISO</i> certified that, for the <i>Capability Year</i> specified by the <i>NYSRC</i> , two <i>Black Start Providers</i> did not provide a letter to the <i>NYISO</i> satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with R1, R2, R3, and <i>NYISO</i> or <i>Transmission Owner</i> procedures and schedules
___ Level 3	M2. The <i>NYISO</i> certified that, for the <i>Capability Year</i> specified by the <i>NYSRC</i> , three <i>Black Start Providers</i> did not provide a letter to the <i>NYISO</i> satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with R1, R2, R3, and <i>NYISO</i> or <i>Transmission Owner</i> procedures and schedules. OR The <i>NYISO</i> certified that one or more <i>Black Start Providers</i> failed to attend restoration training as required by the <i>NYISO</i> or <i>Transmission Owner</i> .
___ Level 4	M2. The <i>NYISO</i> certified that, for the <i>Capability Year</i> specified by the <i>NYSRC</i> , four or more <i>Black Start Providers</i> did not provide a letter to the <i>NYISO</i> satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with R1, R2, R3, and <i>NYISO</i> or <i>Transmission Owner</i> procedures or schedules.

The testing procedures for black start facilities are specified in the NYISO System Restoration Manual, Section 3.1.3 through 3.1.5, and 6.3. For NYISO black start facilities NYPA provided a verification letter regarding testing and maintenance. For Con Edison black start facilities the Generator Owners provided verification letters regarding testing and maintenance.

Each Black Start Provider participated in the NYISO restoration training program.

**Certified by:** D. Mahlmann

**Title:** Manager, Operations Engineering

**Date:** August 25, 2016