

Request to Develop or Modify Reliability Rules and Requirements (NYSRC Policy No. 1-7)

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Item	Information
1. PRR No. & Title of Reliability Rule or Requirement change	PRR 133 Revision of System Restoration Plan, F.1, and Retirement of System Restoration Training and Simulation Programs, F.2
2. Rule Change Requester Information	
Name	RRS
Organization	
3. New rule or revision to existing rule?	Revision
4. Need for rule change, including advantages and disadvantages	<p><u>The directive of the NYSRC is to have Reliability Rules that</u> are more stringent or specific than NERC and NPCC standards and criteria.</p> <p>A recent RRS review indicates that NERC <u>system restoration</u> training requirements are more stringent than virtually all NYSRC system restoration training requirements associated with Reliability Rule F.2. Therefore, this PRR retires Reliability Rule F.2 and related requirements while maintaining a more stringent system restoration training requirement in F.1(R1.14).</p> <p><u>In addition, the RRS review indicates that NERC and NPCC standards and criteria are more stringent and specific as it relates to F.1 NYCA System Restoration Plan Requirements 1.5 and 3 that address procedures for black start test requirements. Therefore, this PRR modifies F.2 Requirements 1.5 and 3 to align them with the applicable NERC and NPCC Black Start testing requirements.</u></p>
5. Related NYSRC rules	
6. Section A – Reliability Rule Elements	
1. Reliability Rule	<p>F.1</p> <p>A NYCA System Restoration Plan (NYCA SRP) shall be maintained to restore the NYCA system to a normal operating state in a safe and orderly manner and as promptly as reasonably possible following a major or total blackout. The NYCA SRP shall be composed of a <i>NYISO</i> system restoration plan and <i>Transmission Owner</i> system restoration plans.</p>
2. Associated NERC & NPCC Standards and Criteria	
3. Applicability	
7. Section B – Requirements	
Requirements	<p>R1. The <i>NYISO</i> shall develop and maintain a NYCA SRP that provides assurance that the NYCA system will be restored in a safe and orderly manner and as promptly as reasonable possible following a major or total blackout.</p> <p>The NYCA SRP shall include system restoration at two integrated levels: restoration of the NYCA backbone system in accordance with a <i>NYISO</i> System Restoration Plan (<i>NYISO</i> SRP) and restoration of local areas in accordance with <i>Transmission Owner</i> system restoration plans (TO SRPs).</p>

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The NYISO shall develop and maintain an SRP that meets NERC and NPCC requirements. In addition, the NYCA SRP shall include the following ~~more stringent and more specific~~ minimum requirements:

~~R1.1 – R1.4 (no changes)~~

~~R1.13 (no changes)~~

~~R1.14 Procedures for training NYISO and Market Participant operating personnel for the effective implementation of the NYCA SRP. The NYISO shall maintain program records showing that operating personnel have been trained in the implementation of the NYCA SRP and participated in restoration exercises. These records shall be provided to the NYSRC upon request.~~

~~R2 and R3 (no changes)~~ R1.5 Procedures for black start facility test requirements to verify that each black start unit in the NYISO and Transmission Owner SRPs is capable of meeting the requirements of these SRPs. These black start testing requirements shall include:

R1.5.1 Each black start facility shall be tested annually. The NYISO shall determine the number of units within a black start facility that shall be tested annually.

R1.5.2 Each black start unit shall test the ability to start with no support from the transmission system or when designed to remain energized without connection to the remainder of the System.

R1.5.3 Each black start unit shall test the ability to energize a bus. If it is not possible to energize a bus during the test, the testing facility must affirm that the unit has the capability to energize a bus such as verifying that the breaker close coil relay can be energized with the voltage and frequency monitor controls disconnected from the synchronizing circuits.

R1.5.4 Each black start unit shall be tested such that once the unit has been started, it shall continue to demonstrate its capability to operate in a stable condition while isolated from the power system for a minimum of ten minutes.

The NYISO shall determine the time within the Capability Year that testing shall be completed.

The NYISO procedures shall indicate that 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. On request by the NYSRC, the NYISO shall certify that reliability was considered when the NYISO and the Transmission Owner approved black start facility testing beyond the Capability Year.

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R1.6 – R1.13 (no changes)

R1.14 Procedures for training NYISO and Market Participant operating personnel for the effective implementation of the NYCA SRP. The NYISO shall maintain program records showing that operating personnel have been trained in the implementation of the NYCA SRP and participated in restoration exercises. These records shall be provided to the NYSRC upon request.

R2 (no changes)

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.

R3.1. These black start testing requirements shall include:

R3.1.1 Each black start facility shall be tested annually. The NYISO shall determine the number of units within a black start facility that shall be tested annually.

R3.1.2 Each black start unit shall test the ability to start with no support from the transmission system or when designed to remain energized without connection to the remainder of the System.

R3.1.3 Each black start unit shall test the ability to energize a bus. If it is not possible to energize a bus during the test, the testing facility must affirm that the unit has the capability to energize a bus such as verifying that the breaker close coil relay can be energized with the voltage and frequency monitor controls disconnected from the synchronizing circuits.

R3.1.4 Each black start unit shall be tested such that once the unit has been started, it shall continue to demonstrate its capability to operate in a stable condition while isolated from the power system for a minimum of ten minutes.

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

	<u>NYISO upon request.</u> <u>R3.5 Black Start Providers shall attend NYISO and Transmission Owner restoration training as required.</u>
	<u>Retire System Restoration Training Reliability Rule F.2 and associated Requirements.</u>
8. Section C – Compliance Elements	No changes. <u>To be determined...</u>
1. Measures	
2. Levels of Non-Compliance	
3. Compliance Monitoring Process (See Policy 4):	
3.1 Compliance Monitoring Responsibility	
3.2 Reporting Frequency	
3.3 Compliance Reporting Requirements	
9. Implementation Plan	
10. Comments	
11. Date Rule Adopted	
12. PRR Revision Dates	5/25/16; <u>7/21/2016</u>

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