

Request to Develop or Modify Reliability Rules (NYSRC Policy No. 1-3)

Submit request to raymond40@aol.com via the NYSRC site www.nysrc.org

Item	Response
1. Respondent	
Name	NYSRC Reliability Rules Subcommittee
Organization	
Address	
Phone & Fax numbers	
Email address	
2. Title of proposed rule change	System Restoration Rules G-R1,G-R2 and G-R3 (PRR #76)
3. New rule or modification of NYSRC RR?	
If a new rule is proposed, provide any relevant citation to existing standards	
If a modification to an existing rule is proposed, provide NYSRC RR reference	Replaces existing NYSRC Rules G-1, G-2 and G-3; consistent with NPCC A-3 and NERC Standards EOP-005-0, EOP-006-0, EOP-007-0 and EOP-009-0.
4. Wording of proposed rule change	<p>G-R1: NYCA System Restoration Plan (Replaces existing G-R1). 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 in the event of a partial or total shutdown. The NYCA SRP shall be comprised of the NYISO and Transmission Owner system restoration plans.</p> <p>G-R2: NYCA Blackstart Capability Plan (Replaces existing G-R2). A NYCA Blackstart Capability Plan (NYCA BCP) shall be established as part of the NYCA SRP required by Reliability Rule G-R1. The NYCA BCP shall include requirements necessary to ensure that the quantity and location of Blackstart Facilities in the NYCA are sufficient and that they can perform their intended functions as specified in the coordinated NYCA SRP. The NYCA BCP shall be comprised of the NYISO and Transmission Owner blackstart plans.</p> <p>G-R3: System Restoration Training and Simulation Programs (Replaces existing G-R3). The NYISO and each Transmission Owner shall provide its personnel with a coordinated training program that will ensure effective implementation of the NYCA SRP and NYCA BCP as required in Reliability Rules G-R1 and G-R2.</p>
5. Rationale for proposed rule change	
Identify advantages	These proposed rule changes are based on the result of RRS review of the NYISO System Restoration Working Group report, dated May 20, 2004; recognizes DOE Blackout Report Recommendation #29 (NERC Recommendation #11); and is consistent with NERC and NPCC emergency restoration criteria (see Line 3). Also, the modified Measurements and Compliance Elements are consistent with the new NYSRC compliance responsibility policy.
Identify disadvantages	

<p>6. Measurement(s)</p>	<p>G-M1 (Replaces existing G-M1): The NYISO shall maintain a procedure for the implementation of a NYCA SRP. This procedure shall include the following requirements applicable to both the NYISO and coordinated Transmission Owner restoration plan elements of the NYCA SRP as may be appropriate to restore the system:</p> <ol style="list-style-type: none"> 1. The NYCA SRP shall require that system restoration take place at two levels: restoration of the NYCA backbone system in accordance with a NYISO restoration plan and restoration of local areas in accordance with Transmission Owner restoration plans. 2. The NYCA SRP shall ensure coordination of the NYISO and Transmission Owner restoration plan elements of the NYCA SRP. The NYCA SRP shall be coordinated with the restoration plans of neighboring control areas as required. 3. The NYCA SRP procedures shall include requirements applicable to the NYISO, the TOs, and the Blackstart Providers for establishing and maintaining a NYCA BCP. This NYCA BCP shall be coordinated with neighboring control areas. Requirements of the NYCA BCP shall include maintaining a database that contains all Blackstart Facilities, including the name, location, megawatt capacity, type of unit(s), annual testing requirements to demonstrate the Blackstart Facilities can perform their intended NYCA BCP and NYCA SRP functions, latest date of test, and starting method. This database shall be updated on an annual basis. The NYISO procedures shall require all Market Participants in general, and Blackstart Providers in particular, to follow instructions from the NYISO and/or Transmission Owners in the execution of the NYCA SRP. The NYISO shall establish and maintain procedures to verify the NYCA SRP by actual testing or by simulation. The NYISO shall annually certify that these testing requirements have been met. 4. The NYCA SRP shall establish a list of all Blackstart Facilities as defined by the NYCA BCP. The NYCA BCP shall also require that the identity of certain Blackstart Facilities from this list shall be made available to affected Transmission Owners. 5. The NYCA SRP shall contain a detailed test plan corresponding to each Blackstart Facility in the NYCA BCP. Such test plans, at a minimum, shall unambiguously state what constitutes a successful black start simulation test for each Blackstart Facility in the NYCA BCP. 6. The NYCA SRP shall be designed with a priority of minimizing the time to restore the system, while allowing the system operator flexibility to respond to as found system conditions. 7. The NYCA SRP shall include the necessary operating instructions and procedures to cover loss of vital telecommunications channels during restoration events. 8. The NYCA SRP shall require that NYISO and each Transmission Owner’s emergency restoration processes include the requirement to establish protocols for
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disseminating information to entities including the NYISO, Transmission Owners, Generation Owners, and neighboring control areas during a system disturbance.

9. The NYCA SRP shall require that the coordination of NYISO and Transmission Owner restoration plans be demonstrated by drill and by simulation.
10. NYISO and Transmission Owner restoration plans shall be reviewed and updated annually and whenever changes are made in the NYS Power System. The NYCA SRP shall include a requirement to establish and maintain a process that compares scheduled outages and/or the unavailability of NYCA BCP Blackstart Facilities or any system element that can affect the NYCA SRP, and determine the effect on the NYCA SRP. The information resulting from the process shall be made available to the NYISO and the operating section of the appropriate Transmission Owner. (G-R1 & G-R2)

G-M2 (Replaces existing G-M2):

Each Transmission Owner shall establish and maintain a restoration plan in accordance with NYISO procedures as required in Measurement G-M1. This restoration plan shall be coordinated with the restoration plans of the NYISO and other Transmission Owners and shall be part of the NYCA SRP. Each Transmission Owner that has a blackstart plan included in the NYCA BCP shall also establish and maintain a blackstart capability procedure [what is a blackstart capability procedure?] as part of its restoration plan for facilities under its control, in accordance with NYISO procedures and the NYCA BCP. (G-R1 & G-R2)

G-M3 (Replaces existing G-M3):

Each Blackstart Provider shall complete a successful test of the startup and operation of each of its Blackstart Facilities included in the NYCA BCP in each Capability Year to demonstrate that its Blackstart Facilities can perform their intended functions in accordance with the procedures required in Measurement G-M1. Each Blackstart Provider shall provide documentation of these test results to the appropriate entity in accordance with NYISO and Transmission Owner procedures. Blackstart Providers shall attend NYISO and Transmission Owner restoration training as required. (G-R2)

G-M4 (Replaces existing G-M4):

The NYISO shall establish and maintain procedures for training NYISO and Market Participant operating personnel for the effective implementation of the NYCA SRP. These procedures shall include coordinated training to be conducted at least annually by the NYISO and each Transmission Owner. The NYISO training procedures shall include restoration simulation exercises that include modeling of each TO SRP. The NYISO and Transmission Owners shall conduct annual simulations of full or partial system shutdowns and restoration, and shall issue critique reports of their respective tests. Blackstart Providers and other generation owners shall be required to attend NYISO and Transmission Owner training sessions as appropriate. Training program records showing that operating personnel have been trained in the implementation of the SRP and participated in

	restoration exercises shall be provided to the NYSRC upon request. (G-R3)
7A. Full Compliance Statement For Measurement G-M1	<i>Replaces existing G-M1 Full Compliance statement.</i> The NYISO shall maintain a procedure for the implementation of a NYCA System Restoration Plan (SRP). This plan shall address all of the requirements and elements specified in Measurement G-M1.
8A. Levels of Non-Compliance	<i>Replaces existing G-M1 non-compliance statements.</i>
Level 1	The SRP exists, but was not reviewed and updated annually.
Level 2	The SRP exists, but did not address one of the requirements or elements specified in Measurement G-M1.
Level 3	The SRP exists, but did not address two of the requirements or elements specified in Measurement G-M1.
Level 4	The SRP exists, but did not address three or more of the requirements or elements in Measurement G-M1, or there is no SRP in place.
7B. Full Compliance Statement For Measurement G-M2	<i>Replaces existing G-M2 Full Compliance statement.</i> The NYISO certifies that all Transmission Owners have established and maintained restoration plans and, if required, blackstart capability procedures in accordance with NYISO procedures and Measurement G-M2.
8B. Levels of Non-Compliance	<i>Replaces existing non-compliance statements.</i>
Level 1	The NYISO certified that the restoration plans and blackstart capability procedures of all Transmission Owners exist, but the restoration plan and blackstart capability procedure of at least one Transmission Owner does not address one of the requirements specified in Measurement G-M1 and G-M2 or in NYISO procedures.
Level 2	The NYISO certified that the restoration plans and blackstart capability procedures of all TOs exist, but the restoration plan and blackstart capability procedure of at least one Transmission Owner does not address two of the requirements specified in Measurement G-M1 and G-M2 or in NYISO procedures.
Level 3	The NYISO certified that the restoration plans and blackstart capability procedures of all Transmission Owners exist, but the restoration plan and blackstart capability procedure of at least one Transmission Owner does not address three or more of the requirements specified in Measurement G-M1 and G-M2 or in NYISO procedures.
Level 4	The NYISO certified that the restoration plan or blackstart capability procedure of one or more Transmission Owners does not exist.
7C. Full Compliance Statement for Measurement G-M3	<i>Replaces existing Full Compliance Statement.</i> The NYISO certifies that all Blackstart Providers are in full compliance with Measurement G-M3 requirements and NYISO procedures.
8C. Levels of Non-Compliance	<i>Replaces exiting non-compliance statements.</i>
Level 1	The NYISO certified that startup and operation testing of all Blackstart Facilities were performed in accordance with NYISO procedures, but the required documentation from one or more Blackstart Providers was incomplete.
Level 2	The NYISO certified that one Blackstart Provider did not attend

	restoration training as required or the blackstart testing of one Blackstart Facility was not successful in accordance of the requirements of Measurement G-M3.
Level 3	The NYISO certified that startup and operation testing in accordance with NYISO procedures by one or more Blackstart Providers was only partially performed or the blackstart testing of two Blackstart Facilities was not successful in accordance of the requirements of Measurement G-M3.
Level 4	The NYISO certified that startup and operation testing in accordance with NYISO procedures by one or more Blackstart Providers was not performed, or more than one Blackstart Provider did not attend restoration training as required or the blackstart testing of three or more Blackstart Facilities was not successful in accordance of the requirements of Measurement G-M3.
7D. Full Compliance Statement for Measurement G-M4	<i>Replaces existing Full Compliance Statement.</i> The NYISO shall maintain restoration training programs in accordance with Measurement G-M4 requirements.
8D. Levels of Non-Compliance	<i>Replaces existing non-compliance statements.</i>
Level 1	Not applicable.
Level 2	The NYISO training program procedures do not address all of the requirements of Measurement G-M4.
Level 3	Not applicable.
Level 4	The NYISO did not provide a training program as required by Measurement G-M4 and NYISO procedures.
9. Responsible Entity	G-M1 through G-M4: NYISO
10. Compliance Monitoring Entity	G-M1 through G-M4: RCMS
11. Implementation Plan	Modification of Reliability Rules G-R1 through G-R3 and related Measurements G-M1 through G-M4, in accordance with PRR #76, will be effective 60 days after adoption by the NYSRC Executive Committee. Compliance documentation must be submitted by the NYISO to the NYSRC as follows: <ul style="list-style-type: none"> • 90 days following PRR #76 adoption: (1) New or revised NYISO procedures in accordance with Measurement G-M1 and G-M4 requirements, and (2) NYISO certification that it has communicated Market Participant requirements in accordance with Measurements G-M2 and G-M3 to all applicable Market Participants. • 6 months following PRR #76 adoption: NYISO certification that all applicable Market Participants are in compliance with NYISO procedures in accordance with Measurements G-M2 and G-M3.
12. Comments	The following definitions will be added to the NYSRC Glossary: <u>Blackstart Facility</u> A generating unit or units at a specific location: (i) that the NYISO or a TO has identified as a candidate to provide blackstart service; (ii) the owner of which has committed to the NYISO to provide such service; and (iii) that meets the

	<p>requirements contained in the NYCA BCP.</p> <p><u>Blackstart Provider</u></p> <p>The owner of a Blackstart Facility.</p> <p><u>System Operating States</u></p> <p>In addition to the Normal State, the four other operating states into which certain system conditions may cause a departure from the Normal State, are as follows: Warning, Alert, Major Emergency, and Restoration. These five operating states are defined in the “System Conditions of the NYS Bulk Power System”, Section V of the NYSRC Reliability Rules Manual. Examples of system conditions that could cause departure from the Normal State are: capacity deficiencies, energy deficiencies, loss of generation or transmission facilities, transmission facility overloads and high or low voltages, abnormal power system frequency, and environmental episodes. When the system enters an operating state other than the Normal State, the primary objective of the NYISO shall be to return the system to the Normal State as soon as possible.</p>
<p>13. Date of Submission</p>	<p>11/15/04, 1/6/05, 2/23/05, 6/22/05, 6/30/05, 7/9/05, 8/4/05, 8/22/05, 9/1/05, 10/9/05, 11/22/05, 12/1/05, 12/9/05, 12/21/05, 1/5/06, 1/6/06, 1/13/06</p>