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# COMPLIANCE TEMPLATES for the NYSRC Reliability Rules

Version 25 January 11, 2013

New York State Reliability Council, L.L.C.

# NYSRC RELIABILITY RULE COMPLIANCE TEMPLATES

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#### I. INTRODUCTION

#### 1. Foreword

This document contains the New York State Reliability Council, L.L.C. (NYSRC) Compliance Templates for the Reliability Rules for Planning and Operating the New York State Power System (Compliance Templates). The Compliance Templates are guides for use by the NYSRC and New York Independent System Operator (NYISO) by which compliance with the Reliability Rules are reviewed and evaluated.

#### 2. Background

The mission of the NYSRC is to promote and preserve the reliability of the New York State Power System in the New York Control Area (NYCA). The NYSRC carries out its mission in accordance with the NYSRC and NYISO/NYSRC Agreements.

This mission includes developing, maintaining, and updating the Reliability Rules, which must be complied with by the NYISO and Market Participants. The Reliability Rules are contained in the document, "NYSRC Reliability Rules for Planning and Operating the New York State Power System."

The NYSRC mission also includes monitoring compliance with the Reliability Rules. NYSRC Policy 4, "Procedure for Monitoring Compliance with the NYSRC Reliability Rules," describes the compliance monitoring process. The Compliance Templates are an essential element of this process. Policy 4 describes the application of the Compliance Templates within the context of the entire NYSRC compliance review process.

The Reliability Rules, NYSRC Policy 4, Compliance Templates, and other NYSRC documents may be downloaded from the NYSRC web site, <u>http://www.nysrc.org</u>.

#### **3.** Application of the Compliance Templates

A compliance template provides the requirements for achieving full compliance with a measurement associated with one or more Reliability Rules, in addition to factors which may contribute to non-compliance. The compliance template assists those entities responsible for complying with the Reliability Rules, as well as those entities responsible for monitoring compliance with the Reliability Rules.

The NYISO is responsible for achieving compliance with all of the measurements covered by the Compliance Templates. The NYSRC Reliability Compliance Monitoring Subcommittee (RCMS) is responsible for monitoring NYISO compliance with those measurements for which the NYISO has direct responsibility for achieving compliance, using the Compliance Templates.

Market Participants (Transmission Owners, Generation Owners, Installed Capacity Providers, Blackstart Providers, Equipment Owners, Developers, and LSEs) are directly responsible for achieving compliance with certain measurements. There is a dual compliance monitoring process for these measurements. First, the NYISO is responsible for monitoring Market Participant compliance with those measurements, and is encouraged to use the Compliance Templates for this process. Second, the NYISO prepares a statement in which it certifies that it has found a Market Participant either in full compliance or non-compliance with a measurement. The certification includes the NYISO's compliance evaluation and applicable references. RCMS reviews the NYISO certification and determines whether the NYISO is subject to a finding of full compliance or noncompliance in accordance with the Compliance Templates. A noncompliance finding is designated when the NYISO cannot certify that a market participant is in full compliance (note that the NYISO is responsible for achieving compliance with all measurements – see NYSRC Policy 4 for more details.

Since more than one measurement may be applicable to a given Reliability Rule, measurements may be addressed as a group to determine if compliance to a particular Reliability Rule is achieved.

The Compliance Templates are supplemented or revised as measurements are added or modified.

#### 4. Compliance Template Format

The format of the compliance template is shown in Table 1. A description of each major heading in the template is included.

#### 5. Violations of NYSRC Compliance Requirements

Non-monetary sanctions for violations of requirements stated in the compliance templates are imposed in the form of letters to the NYISO officers and/or regulatory bodies. These letters are described in Policy 4. Policy 4 also covers NYSRC procedures when compliance documentation from the NYISO is overdue.

#### 6. Compliance Template Index

Table 2 is a Compliance Template index shows for each compliance template -- the applicable measurement, the related Reliability Rule(s), the entity responsible for complying with the measurement (applicable entity), the entity responsible for monitoring compliance, and compliance report frequency.

# TABLE 1: COMPLIANCE TEMPLATE FORMAT

- Reliability Rule Section and Measurement Number: As in Reliability Rule document.
- **Reliability Rule Reference(s):** The number and name of related Reliability Rule(s). The wording of the Reliability Rule(s) may be found in the "NYSRC Reliability Rules for Planning and Operating the New York State Power System" Manual.
- **Measurement:** The number and exact wording of the template measurement as in the Reliability Rules document. A measurement identifies what actions are to be performed or what outcomes are to be achieved, for complying with the related Reliability Rule.

### • Compliance Monitoring Process:

<u>Compliance Documentation Reporting Responsibility</u>: This is the entity responsible for complying with the measurement and submitting documentation showing the actions that have been performed for achieving compliance.

<u>Compliance Monitoring Responsibility</u>: This is the entity responsible for evaluating compliance documentation or certification statements to assess whether the data or other information reported complies with the requirements in the measurement. When a market participant is responsible for complying with a measurement, a duel NYISO/RCMS compliance process described in Section 3 is implemented.

<u>Compliance Documentation Reporting Frequency</u>: The frequency or timetable for providing required documentation.

- **Full (100%) Compliance:** Clear statement of compliance reporting requirements for demonstrating compliance with the measurement. The statement may include references to related Reliability Rules and measurements.
- Levels of Non-Compliance: In increasing levels of non-compliance. Some levels may not be applicable.
  - Level 1
  - Level 2
  - Level 3
  - Level 4
- **Full (100%) Compliance:** Clear statement of compliance reporting requirements for demonstrating compliance with the measurement. The statement may include references to related Reliability Rules and measurements.
- Levels of Non-Compliance: In increasing levels of non-compliance. Some levels may not be applicable.
  - Level 1
  - Level 2
  - Level 3
  - Level 4

	Measurement/ Compliance Template	Reliability Rule	Applicable Entity <sup>1</sup>	Compliance Monitoring Entity or Entities <sup>2</sup>	Reporting Frequency	Page Number
А.	Resource Adequad	y				
	A-M1	A-R1	ICS	RCMS	Annually	11
	A-M2	A-R2,3	NYISO	RCMS	Annually	12
	A-M3	A-R2,3	LSEs	NYISO/RCMS	Annually	13
	A-M4	A-R2	NYISO	RCMS	As Required	14
В.	Transmission Cap	ability - Planni	ng		· · · ·	
	B-M1	B-R1-3	NYISO	RCMS	Annually	15
	B-M2	B-R4	NYISO	RCMS	Annually	16
	B-M3	B-R5	NYISO	RCMS	Annually	17
	B-M4	B-R6	NYISO	RCMS	On Request	18
C.	Resource & Dema					
	C-M1	C-R1	NYISO	RCMS	On Request	19
	C-M2	C-R1	GOs	NYISO/RCMS	On Request	21
	C-M3	C-R1	GOs	NYISO/RCMS	On Request	22
	C-M4	C-R2	NYISO	RCMS	On Request	23
	C-M5	C-R2	ICPs	NYISO/RCMS	On Request	25
	C-M6	C-R2	NYISO	RCMS	Annually	26
	C-M7	C-R3	NYISO	RCMS	On Request	27
	C-M8	C-R3	NYISO	RCMS	Annually	28
	C-M9	C-R4	NYISO	RCMS	On Request	29
	C-M10	C-R4	NYISO	RCMS	On Request	31
	C-M11	C-R4	TOs & DEVs	NYISO/RCMS	On Request	32
	C-M12	C-R5	NYISO	RCMS	On Request	33
	C-M13	C-R5	MPs	NYISO/RCMS	On Request	34
	C-M14	C-R2	NYISO	RCMS	On Request	35
	C-M15	C-R2	RIPs	NYISO/RCMS	On Request	37
D.	<b>Operating Reserve</b>					
	D-M2	D-R1-3	NYISO	RCMS	On Request	35
Е.	Transmission Cap					
	E-M1	E-R1-3	NYISO	RCMS	On Request	36
	E-M3	E-R5	NYISO	RCMS	On Request	37
	E-M4	E-R6	NYISO	RCMS	On Request	38
	E-M6	E-R8	NYISO	RCMS	On Request	39
	E-M7	E-R8	EOs	NYISO/RCMS	On Request	40
	E-M8	E-R8	NYISO	RCMS	On Request	41
	E-M9	E-R10	NYISO	RCMS	Annually	42
F.	<b>Operating During</b>				· · · ·	
	F-M1	F-R1-7	NYISO	RCMS	On Request	44
	F-M2	F-R1-7	NYISO	RCMS	As Required	45
	F-M3	F-R8	NYISO	RCMS	On Request	46
	F-M4	F-R8	TOs	RCMS	On Request	47
	F-M6	F-R5	NYISO	RCMS	Annually	48

# TABLE 2: COMPLIANCE TEMPLATE INDEX

		1		1	· · · · · · · · · · · · · · · · · · ·	,
	Measurement/ Compliance Template	Reliability Rule	Applicable Entity <sup>1</sup>	Compliance Monitoring Entity or Entities <sup>2</sup>	Reporting Frequency	Page Number
G.	System Restoration	n		•		
	G-M1	G-R1-2	NYISO	RCMS	On Request	49
	G-M2	G-R1	TOs	NYISO/RCMS	On Request	52
	G-M3	G-R2	BPs	NYISO/RCMS	On Request	53
	G-M4	G-R3	NYISO	RCMS	On Request	55
H.	System Protection					
	H-M1	H-R1	NYISO	RCMS	On Request	56
	H-M2	H-R2	NYISO	RCMS	On Request	57
	H-M3	H-R2	NYISO	RCMS	On Request	58
I.	Local Reliability R					
	I-M1	I-R1,3,4	NYISO	RCMS	On Request	59
	I-M2	I-R5	NYISO	RCMS	On Request	60
	I-M3	I-R2	NYISO	RCMS	On Request	61
	I-M4	I-R1-5	NYISO	RCMS	Annually	62
	I-M5	I-R1,3,4	Con Edison	NYISO/RCMS	On Request	63
	I-M6	I-R5	LIPA	NYISO/RCMS	On Request	64
J.	NYISO Control Center Communications					
	J-M1	J-R1-2	NYISO	RCMS	On Request	65
	J-M2	J-R2	NYISO	RCMS	On Request	66
	J-M3	J-R2	NYISO	RCMS	As Required	67
К.	<b>Reliability Assessm</b>	nent				
	K-M1	K-R1	NYISO	RCMS	On Request	68
	K-M2.a	K-R2	NYISO	RCMS	Annually	69
	K-M2.b	K-R2	NYISO	RCMS	Annually	71
	K-M2.c	K-R2	NYISO	RCMS	On Request	72
	K-M2.d	K-R2	NYISO	RCMS	Monthly	73
	K-M2.e	K-R2	NYISO	RCMS	On Request	75
	K-M2.f	K-R2	NYISO	RCMS	On Request	76
	K-M3	K-R3	NYISO	RCMS	Annually	77

### TABLE 2: COMPLIANCE TEMPLATE INDEX (CONTINUED)

#### **Table 4 Footnotes**

- 1 Entity responsible for achieving compliance with the measurement and submitting compliance documentation.
  - ICS Installed Capacity Subcommittee
  - LSE Load Serving Entity
  - GO Generation Owner
  - ICP Installed Capacity Provider
  - TO Transmission Owner
  - DEV Developer
  - MP Market Participant
  - EO Equipment Owner
  - BP Blackstart Provider
  - RIP Responsible Interface Party
- 2 See Section 3 and Table 1, Compliance Template Format, for an explanation of the dual NYISO/RCMS compliance monitoring process.

# II. COMPLIANCE TEMPLATES

### **RESOURCE ADEQUACY**

#### **Reliability Rule Reference**

#### A-R1 NYCA Installed Reserve Margin Requirement

#### Measurement

**A-M1** The NYSRC shall periodically perform resource adequacy studies to update the required statewide installed reserve margin. A report shall be prepared providing the assumptions, procedures, and results of the study.

### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Installed
Capacity Subcommittee (ICS)
Compliance Monitoring Responsibility:
Review of ICS Compliance Documentation – RCMS
Compliance Documentation Reporting Frequency: On Request

$\Box$ Full (100%) Compliance	The NYSRC Installed Capacity Subcommittee conducted the
	annual resource adequacy study for the following capability
	period, and reported the results of the study in accordance with
	Measurement A-M1.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	A report was submitted, but was incomplete in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	A report was not submitted.

### **RESOURCE ADEQUACY**

#### **Reliability Rule Reference**

#### A-R2 LSE Installed Capacity Requirement A-R3 External Installed Capacity

#### Measurement

A-M2 The NYISO shall prepare a report for the next capability period showing (1) LSE installed reserve margin and capacity requirements so as to meet statewide installed reserve margin requirements, (2) LSE locational installed capacity requirements for applicable NYS zones, such as New York City and Long Island, and (3) the allowable amount of LSE ICAP requirements that may be located externally to the NYCA. The report shall include the procedures, factors, and assumptions utilized by the NYISO to determine these LSE ICAP requirements. The NYISO Installed Capacity Manual shall include procedures to establish LSE ICAP requirements.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: Annually

Levels of Compliance	
$\Box$ Full (100%) Compliance	The NYISO conducted the annual analyses to establish LSE and
	locational installed capacity (ICAP) requirements for the next
	capability year. The analyses were based on NYCA ICAP
	requirements established by the NYSRC and utilizes models and
	assumptions consistent with those used by the NYSRC for its
	ICAP requirement study. A report was prepared in accordance
	with Measurement A-M2, which addresses the results of the
	study, models utilized, study procedures and assumptions, and
	other study considerations. The report demonstrates that the LSE
	and locational ICAP requirements established by the NYISO
	meets NYSRC Reliability Rules.
□ Non-Compliance Level 1	Not applicable.
$\Box$ Non-Compliance Level 2	The NYISO report, or analyses of LSE and locational ICAP
	requirements, was incomplete in one or more areas.
□ Non-Compliance Level 3	Analyses of LSE and locational ICAP requirements did not meet
	NYSRC Reliability Rules, or did not meet NYCA ICAP
	requirements established by the NYSRC.
□ Non-Compliance Level 4	Analyses of LSE and locational ICAP requirements were not
	provided.

### **RESOURCE ADEQUACY**

A-M3

#### **Reliability Rule Reference**

#### A-R2 LSE Installed Capacity Requirement A-R3 External Installed Capacity

#### Measurement

A-M3 Each LSE shall certify and maintain its ICAP obligation for the next capability period, including any locational and external installed capacity, in accordance with LSE ICAP requirements established by the NYISO Tariff and the NYISO Installed Capacity Manual.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Load Serving
Entities
Compliance Monitoring Responsibility:
1. Review of Load Serving Entity Compliance
Documentation – NYISO
2. Review of NYISO Compliance Certification – RCMS
<b>Compliance Documentation Reporting Frequency:</b> On Request

▲	
$\Box$ Full (100%) Compliance	Each LSE demonstrated that it procured sufficient capacity from
	Installed Capacity Suppliers to meet its ICAP requirement, in
	accordance with Measurement A-M3.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Not applicable.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The LSE fails to comply with NYISO requirements to demonstrate that it procured sufficient capacity to meet its ICAP obligation.

### **RESOURCE ADEQUACY**

#### **Reliability Rule Reference**

#### A-R2 LSE Installed Capacity Requirement

#### Measurement

**A-M4** The NYISO shall notify those LSEs that are determined to be deficient in meeting their ICAP requirements, including locational installed capacity requirements, for the next capability period. This notification shall specify appropriate deficiency charges. The NYSRC shall be immediately notified of such capacity deficiencies, including any measures that may be planned to minimize reliability impacts.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: As Required

$\Box$ Full (100%) Compliance	The NYISO immediately notified the NYSRC that a LSE failed
	to demonstrate that it meets its ICAP requirement for the next
	capability period, in addition to other requirements specified in
	Measurement A-M4.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Not applicable.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The NYISO did not notify the NYSRC when an LSE failed to
_	demonstrate that it meets its ICAP requirement for the next
	capability period.

### TRANSMISSION CAPABILITY – PLANNING

#### **Reliability Rule Reference**

- **B-R1** Thermal Assessment
- **B-R2** Voltage Assessment
- **B-R3** Stability Assessment
- **B-R7** Fault Current Assessment

#### Measurement

**B-M1** The NYISO shall ensure that the thermal, voltage, short-circuit, and stability performance of the NYS Bulk Power System, as planned, is in accordance with NYSRC thermal, voltage, fault duty, and stability assessment criteria, and applicable NPCC Criteria.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: Annually

Levels of Comphance	
□ Full (100%) Compliance	The NYISO assessed the performance of the planned NYS bulk power transmission system in meeting thermal, voltage, fault duty and stability criteria in accordance with NYSRC Reliability Rules B-R1, B-R2, B-R3, and B-R7. These assessments must indicate that the planned NYS bulk power transmission system is compliant with Reliability Rules. Documentation of results of these reliability assessments were reported for the current year to the NYSRC in accordance with Measurement K-M2.a.
□ Non-Compliance Level 1	The NYISO assessment was completed and submitted. However, the NYS bulk power transmission system was found to be non- compliant with Reliability Rules B-R1, B-R2, B-R3 or B-R7. The NYISO submitted an acceptable plan and schedule for addressing the area(s) of noncompliance.
□ Non-Compliance Level 2	Not applicable.
Non-Compliance Level 3	The NYISO assessment was completed and submitted. However, the NYSRC bulk power transmission system was found to be non-compliant with Reliability Rules B-R1, B-R2, B-R3, or B- R7. The NYISO either failed to submit a plan and schedule to meet the Reliability Rules, or the plan was found to be unacceptable.
□ Non-Compliance Level 4	The NYISO assessment was not submitted.

### TRANSMISSION CAPABILITY – PLANNING

#### **Reliability Rule Reference**

#### **B-R4** Extreme Contingency Assessment

#### Measurement

**B-M2** The NYISO shall assess the risks and system performance resulting from the extreme contingencies in Table B of the NYSRC Reliability Rules, and shall utilize measures, where appropriate, to reduce the frequency of occurrence of such contingencies, or to mitigate the consequences that are indicated as a result of testing for such contingencies.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: Annually

Levels of Compliance	
$\Box$ Full (100%) Compliance	The NYISO conducted the annual assessment of the risks and
	system performance resulting from extreme contingencies of the
	planned NYS bulk power transmission system in accordance with
	NYSRC Reliability Rule B-R4 and Measurement B-M2. Where
	simulations indicated that the system could become unstable, the
	NYISO documented measures and procedures to mitigate or
	eliminate the extent and effects on system performance and loss
	of customer demand. Documentation of results of these reliability
	assessments were reported for the current year to the NYSRC in
	accordance with Measurement K-M2.a.
$\Box$ Non-Compliance Level 1	Simulation testing was completed in accordance with B-R4;
	however, mitigation measures were not fully explored for all
	conditions analyzed.
□ Non-Compliance Level 2	Not applicable.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	Simulation testing was not completed in accordance with B-R4.

### **TRANSMISSION CAPABILITY – PLANNING**

#### **Reliability Rule Reference**

#### **B-R5** Restoration

#### Measurement

**B-M3** The NYISO shall develop, maintain, and execute procedures to evaluate system expansion or reconfiguration plans and identify their impact on the NYCA SRP. This process shall be performed every year as part of the NYISO annual transmission assessment. Any impacts identified shall be described in terms of how and where the SRP may need to be modified, and made available to the NYISO Operating Group and the operating function of the appropriate transmission owners for consideration in the annual review and update of NYISO and transmission owner restoration plans as required by Reliability Rule G-R1.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: Annually

$\Box$ Full (100%) Compliance	The NYISO prepared and adequately implemented a procedure to
	assess the impact of system expansion plans on the NYCA
	System Restoration Plan, in accordance with Measurement B-M3.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The NYISO prepared the required procedure, but the procedure
-	was not adequately implemented.
□ Non-Compliance Level 3	The NYISO did not prepare the required procedure.
□ Non-Compliance Level 4	Not applicable.

### **TRANSMISSION CAPABILITY – PLANNING**

#### **Reliability Rule Reference**

### B-R6 List of NYS Bulk Power System Facilities

#### Measurement

**B-M4** The NYISO shall establish and maintain a procedure for developing a list of NYS Bulk Power System facilities. On request, the NYISO shall submit this procedure and list of NYS Bulk Power System facilities to the NYSRC for review. The NYS Bulk Power System facilities list shall be published in the annual NYISO "Load and Capacity Data Report" or other publication approved by the NYSRC.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

Hereis of Comphanee	
$\Box$ Full (100%) Compliance	The NYISO established and maintained a procedure for
	developing a list of NYS Bulk Power System facilities and
	publish this list, in accordance with Measurement B-M4.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Documentation of NYISO procedures for developing and
-	maintaining a list of NYS Bulk Power System facilities was
	incomplete in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The list of NYS Bulk Power System facilities was not published
-	as required, or documentation of procedures for developing and
	maintaining the list of NYS Bulk Power System Facilities was not
	provided.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M1

#### **Reliability Rule Reference**

### C-R1 Verification Testing of Resource Capacity

#### Measurement

The *NYISO* shall establish and maintain procedures for *resource capacity* data verification testing or demonstration for all equipment utilized for providing *installed capacity* and *reactive power capacity* to the NYCA.

The data to be provided to the *NYISO* shall include *resource net dependable capacity* for all resources that are participating in the *NYISO* installed capacity market, and *reactive power capacity* for all resources that are voltage support ancillary service providers. The procedures shall include requirements for resource providers to provide to the *NYISO* the net MW at the time of the DMNC test, and the net MW and gross MVAr quantities taken simultaneously at the time of the *reactive power capability* test. These reactive power tests shall be undertaken for both leading and lagging reactive power operation.

*NYISO* procedures shall further require that generation equipment owners perform leading reactive power tests once every three calendar years and lagging reactive power tests once every calendar year for all generators that are voltage support ancillary service providers. These tests shall verify the maximum *reactive power capacity* offered into the voltage support service program. The AVR shall be in service at all times during the test. The resource capacity test results reported to the *NYISO* shall include the actual test date(s) for each generator and the MW output at the time of the test.

In addition, *NYISO* procedures shall include a requirement that, following leading reactive power testing, each *generation* equipment owner shall provide a certification to the *NYISO* that the data submitted for the leading reactive power test accurately demonstrates the maximum leading reactive power of the generator at the time of the test.

The *NYISO* shall provide dependable net capacity and gross reactive power capacity data to the operating function of the *Transmission Owner* that the resource connects to, within 60 calendar days following the close of the seasonal capability period or annual test period, respectively. Documentation of the *NYISO* procedures and verification results shall be provided to the *NYSRC* upon request.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

□ Full (100%) Compliance	The NYISO established and maintained resource capacity verification procedures in accordance with Measurement C-M1. The schedule for the testing of generation equipment and the schedule for submission of the verification or tests to the NYISO was included in these NYISO procedures. The dependable net capacity and gross reactive capacity data was forwarded to the operating function of the Transmission Owner in accordance with time requirements specified in C-M1.
□ Non-Compliance Level 1	Not applicable.
Non-Compliance Level 2	Documentation of NYISO procedures for resource capacity equipment testing did not meet Measurement C-M1 requirements in one or more areas.
□ Non-Compliance Level 3	The NYISO did not provide capacity data to the Transmission Owners within the time requirements specified in Measurement C-M1.
Non-Compliance Level 4	Documentation of NYISO procedures for resource capacity equipment testing in accordance with Measurement C-M1 requirements were not provided.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M2

#### **Reliability Rule Reference**

### C-R1 Verification Testing of Resource Capacity

#### Measurement

**C-M2** Owners of resources responsible for providing ICAP shall seasonally verify the net dependable capacity of their equipment and report these results to the NYISO in accordance with NYISO procedures and schedules as required in Measurement C-M1.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Generation
Owners
Compliance Monitoring Responsibility:
1. Review of Generation Owner Compliance
Documentation – NYISO
2. Review of NYISO Compliance Certification – RCMS
Compliance Documentation Reporting Frequency: On Request

□ Full (100%) Compliance	The NYISO certified that all applicable generation owners responsible for providing ICAP verified the net dependable capacity of their equipment and reported these results to the NYISO as specified by NYISO procedures and schedules under Measurement C-M1, in accordance with Measurement C-M2.
□ Non-Compliance Level 1	The NYISO certified that one generation owner did not submit complete verified dependable net capacity test results to the NYISO as required by NYISO procedures and Measurement C- M2.
Non-Compliance Level 2	The NYISO certified that two generation owners did not submit complete verified dependable net capacity test results to the NYISO as required by NYISO procedures and Measurement C- M2.
Non-Compliance Level 3	The NYISO certified that three generation owners did not submit complete verified dependable net test results to the NYISO as required by NYISO procedures and Measurement C-M2.
Non-Compliance Level 4	The NYISO certified that four or more generation owners did not submit complete verified dependable net capacity test results to the NYISO as required by NYISO procedures and Measurement C-M2.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M3

#### **Reliability Rule Reference**

#### C-R1 Verification Testing of Resource Capacity

#### Measurement

**C-M3** *Generation* equipment owners shall annually perform lagging reactive power tests for all generators that are voltage support ancillary service providers. *Generation* equipment owners shall perform leading *reactive power* tests once every three calendar years for all generators that are voltage support ancillary service providers. These tests shall verify the maximum reactive power capacity offered into the voltage support service program. Test results shall be reported to the *NYISO*, in accordance with *NYISO* procedures and schedules as required in Measurement C-M1.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Generation
Owners
Compliance Monitoring Responsibility:
1. Review of Generation Owner Compliance
Documentation – NYISO
2. Review of NYISO Compliance Certification – RCMS
Compliance Decumentation Departing Frequency: On Decuest

**Compliance Documentation Reporting Frequency:** On Request

Levels of compliance	
□ Full (100%) Compliance	The NYISO certified that all applicable generation owners performed tests to verify the reactive power capacity for their generators, and reported these test results to the NYISO as specified by NYISO procedures and schedules under Measurement C-M1, in accordance with Measurement C-M3.
□ Non-Compliance Level 1	The NYISO certified that one or more generation owners failed to
L L	submit test results to the NYISO on schedule.
□ Non-Compliance Level 2	The NYISO certified that generator reactive power capacity
	verification testing reports were incomplete in one or more areas
	for one or more generator owners, as specified by NYISO
	procedures.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The NYISO certified that generator reactive power capacity
	verification tests was either not completed, or testing results not
	provided to the NYISO, as specified by NYISO procedures and
	schedules, for one or more generator owners.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M4

#### **Reliability Rule Reference**

#### C-R2 Generating Unit Availability and Special Case Resource Performance

#### Measurement

**C-M4** The NYISO shall establish, maintain and follow procedures to address Installed Capacity Provider generating unit outage data reporting requirements and methods of processing outage data. These procedures shall be designed to provide complete, consistent and accurate data to support NYSRC and NYISO reliability studies. This data shall include, but not be limited to, forced, partial and maintenance outage statistics. NYISO outage data reporting and processing procedures shall include the following requirements:

#### Outage Data Reporting Procedure

- 1. Installed Capacity Provider generating unit outage data reporting instructions.
- 2. Installed Capacity Provider outage data reporting schedules.
- 3. Training programs for Installed Capacity Providers that focus on proper generating unit outage data collection and reporting methods for submission of accurate data to the NYISO.
- 4. The consequences to an Installed Capacity Provider of failing to submit complete, accurate and timely data to the NYISO.

#### Outage Data Processing Procedures

5. Due diligence NYISO processes for screening of all generating unit outage data received from Installed Capacity Providers. These processes shall be designed to screen outage data and replace misreported outage data or *Suspect Data* with corrected or proxy data as necessary, and shall be employed by the NYISO before the data is used in NYSRC and NYISO reliability studies. On request by the NYSRC, the NYISO shall make available for inspection documentation covering its processes for reviewing and screening outage data.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
<b>Compliance Monitoring Reporting Frequency:</b> On Request

□ Full (100%) Compliance	The NYISO had full documentation of its generating unit outage				
	<b>e e e</b>				
	data reporting procedures (Requirements 1-4) and outage data				
	processing procedures (Requirement 5), as specified in				
	Measurement C-M4. The NYISO made available, on request,				
	documentation describing its generating unit outage data				
	processes. The NYISO provided documentation showing that it				

	has employed its generating unit outage data processes for review and screening of all reported outage data, and corrected misreported outage data or developed proxy data, as necessary,, before the data was used in NYSRC and NYISO reliability studies.
Non-Compliance Level 1	NYISO generating unit outage data reporting and processing procedures were provided, but were incomplete relative to one of the five requirements defined in C-M4. Following a NYSRC request, the NYISO did not make available documentation describing its outage data processes.
□ Non-Compliance Level 2	NYISO compliance documentation showed that not all reported generating unit outage data were reviewed, screened and corrected using the NYISO generating unit outage data process procedure before the data was used in NYSRC and NYISO reliability studies.
□ Non-Compliance Level 3	NYISO generating unit outage data reporting and processing procedures were provided, but were incomplete relative to two of the five C-M4 requirements defined in C-M4.
<ul> <li>Non-Compliance Level 4</li> </ul>	NYISO generating unit outage data reporting and processing procedures were provided, but were incomplete relative to three or more of the five C-M4 requirements defined in C-M4.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M5

#### **Reliability Rule Reference**

#### C-R2 Generating Unit Availability and Special Case Resource Performance

#### Measurement

**C-M5** Installed Capacity Providers located in or serving the NYCA shall provide generating unit outage data for their generating units in accordance with NYISO procedures, tariffs and schedules for reporting outage data to the NYISO.

#### **Compliance Monitoring Process**

### Compliance Documentation Reporting Responsibility: Installed

Capacity Providers

#### **Compliance Monitoring Responsibility:**

- 1. Review of Installed Capacity Provider Compliance
- Documentation NYISO
- 2. Review of NYISO Compliance Certification RCMS

#### Compliance Documentation Reporting Frequency: On Request

Levels of Compliance	
$\Box$ Full (100%) Compliance	The NYISO certified that, during the time period designated by
	the NYSRC, all Installed Capacity Providers reported generating
	unit outage data in accordance with applicable NYISO
	procedures, tariffs and schedules.
□ Non-Compliance Level 1	The NYISO certified that an Installed Capacity Provider failed to
	report its generating unit outage data in accordance with NYISO
	data reporting schedules.
□ Non-Compliance Level 2	The NYISO certified that generating unit outage data from an
	Installed Capacity Provider was found to be misreported after the
	data was used in reliability studies.
□ Non-Compliance Level 3	The NYISO certified that generating unit outage data from a
	single Installed Capacity Provider was found to be misreported
	two or more times over a two-year period, after the data was used
	in reliability studies.
□ Non-Compliance Level 4	The NYISO certified that an Installed Capacity Provider did not
	report its generating unit outage data in accordance with
	applicable NYISO procedures and tariffs.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M6

#### **Reliability Rule Reference**

### C-R2 Generating Unit Availability and Special Case Resource Performance

#### Measurement

**C-M6** The NYISO shall annually prepare, from generating unit outage data received under C-M5, a document depicting outage data statistics to be specified by the NYSRC, and submitted in accordance with NYSRC time schedules.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: Annually

□ Full (100%) Compliance	The NYISO prepared the annual document depicting NYCA generating unit outage statistics from outage data received from Installed Capacity Providers, as specified in Measurement C-M6. This document wassubmitted to the NYSRC in accordance with NYSRC time schedules.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The required document depicting NYCA generating unit outage statistics was not submitted to the NYSRC.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	Not applicable.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M7

#### **Reliability Rule Reference**

#### C-R3 Load Forecasting

#### Measurement

**C-M7** The NYISO shall have documentation identifying the scope and details of the actual and forecast (a) demand data and (b) net energy for load data to be reported for system modeling and reliability analyses. The documentation of the scope and details of the data reporting requirements shall be available to the NYSRC on request.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

$\Box$ Full (100%) Compliance	The NYISO prepared procedures specifying load data							
	requirements in accordance with Measurement C-M7, which shall							
	address the data requirements in Measurement C-M8, as well as a							
	schedule for reporting this data.							
□ Non-Compliance Level 1	Procedures specifying load data requirements were incomplete in							
	one or more areas.							
□ Non-Compliance Level 2	Not applicable.							
□ Non-Compliance Level 3	Not applicable.							
□ Non-Compliance Level 4	Procedures specifying load data requirements were not provided.							

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M8

#### **Reliability Rule Reference**

#### C-R3 Load Forecasting

#### Measurement

<b>C-M8</b>	The following	information	shall	be	provided	annually	to	the	NYSRC	as	specified	by
	NYISO proced	ures required	under	: C-l	M7:							

- a. Annual peak hour actual demands in megawatts (MW) and net energy for load in gigawatthours (GWh) for the prior year, on an aggregated statewide and transmission district basis.
- b. Annual peak hour forecast demands in MW (summer and winter) in MW and annual net energy in GWh for at least five years and up to ten years into the future, on an aggregated statewide and transmission owner basis. In addition, annual peak hour forecast demands for the NYCA zones, for a specified future period, will be provided to the NYSRC on request.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: Annually

$\Box$ Full (100%) Compliance					
	data was provided when requested in accordance with				
	Measurement C-M8.				
$\Box$ Non-Compliance Level 1	Not applicable.				
□ Non-Compliance Level 2	2 Actual and forecast demand and energy data was not provide				
_	when requested in one or more of the areas as required by				
	Measurement C-M8.				
□ Non-Compliance Level 3	Not applicable.				
□ Non-Compliance Level 4	No actual and forecast demand and energy data, as required by				
	Measurement C-M8, was provided when requested.				

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS**

**C-M9** 

#### **Reliability Rule Reference**

#### C-R4 System Data Requirements

#### Measurement

**C-M9.** The NYISO shall establish and maintain procedures for the development and maintenance of load flow, short circuit, and stability data bases. These procedures shall:

- 1. Require Market Participants and Developers to report to the NYISO accurate equipment data, including changes, which affect these data bases. The procedure shall address appropriate time requirements for reporting such data.
- 2. Include guidelines for checking the reasonableness of equipment data (load flow, short circuit and stability data) to identify Suspect Data. The guidelines shall specify reasonable data parameters.
- 3. Require the NYISO to apply the guidelines in C-M9.2 to data provided to the NYISO.
- 4. Require the NYISO to request verification or corrections of any Suspect Data from the Market Participant or Developer that provided the data.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

Levels of Comphanee	
□ Full (100%) Compliance	The NYISO had in place procedures for the development and maintenance of load flow, short-circuit and stability data bases,
	•
	including Market Participant and Developer requirements to
	report accurate equipment data, including changes which affect
	these data bases, to the NYISO, in accordance with Measurement
	C-M9. These procedures also addressed time requirements for
	reporting such data. In addition, the NYISO applied data
	reasonableness guidelines for all data provided to the NYISO for
	identifying Suspect Data, as described in C-M9, and requested
	verification or corrections of Suspect Data from the Market
	Participant or Developer that provided the data.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	NYISO procedures for development and maintenance of load
	flow, short-circuit, and stability data bases have been prepared,
	but were incomplete in one or more areas.
□ Non-Compliance Level 3	It was determined that the NYISO did not adequately apply its
	guidelines for identifying Suspect Data for certain data provided
	by Market Participants and Developers after a review of

	equipment data used in a planning or operating study indicated
	that the data fell outside the range of reasonable data parameters.
□ Non-Compliance Level 4	NYISO procedures for development and maintenance of load
-	flow, short-circuit, and stability data bases have not been
	prepared, or the NYISO has not prepared guidelines for
	identifying Suspect Data.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M10

#### **Reliability Rule Reference**

#### C-R4 System Data Requirements

#### Measurement

C-M10 Load flow, short-circuit and stability data bases shall be updated by the NYISO on an annual basis or whenever system changes warrant an update, as specified by NYISO procedures required under Measurement C-M9. These data bases shall be made available per NYISO procedures.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>		
NYISO		
Compliance Monitoring Responsibility: Review of NYISO		
Compliance Documentation – RCMS		
Compliance Monitoring Reporting Frequency: On Request		

The second secon	
$\Box$ Full (100%) Compliance	Load flow, short-circuit, and stability data bases were updated as
	specified by NYISO procedures and schedules, in accordance
	with Measurement C-M10.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Load flow, short-circuit, or stability data bases were not updated
	as specified by NYISO procedures and schedules.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	None of the load flow, short-circuit, and stability data bases were
_	updated as specified by NYISO procedures and schedules.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M11

#### **Reliability Rule Reference**

#### C-R4 System Data Requirements

#### Measurement

C-M11. Market Participants and Developers shall:

- 1. Provide to the NYISO accurate load flow, short circuit and stability data in the time frame and format as specified by NYISO procedures required under C-M9. This data will be used to maintain up-to-date data bases required under Measurement C-M10.
- 2. Respond to NYISO requests for data verification or correction of Suspect Data.
- 3. Review and check their equipment data (load flow, short circuit and stability data) within data bases provided by the NYISO to ensure accuracy.

#### **Compliance Monitoring Process**

#### Compliance Documentation Reporting Responsibility: Transmission Owners

#### Owners

### **Compliance Monitoring Responsibility:**

- 1. Review of Transmission Owner & Developer Compliance Documentation – NYISO
- 2. Review of NYISO Compliance Certification RCMS

Compliance Documentation Reporting Frequency: On Request

Levels of Compliance	
□ Full (100%) Compliance	The NYISO certified that all Market Participants and Developers
	provided the NYISO with load flow, short circuit, and stability
	data bases in accordance with Measurement C-M11. In addition,
	the NYISO certified that all Market Participants and Developers
	reviewed their data bases for accuracy and responded to NYISO
	requests for data verification or correction of Suspect Data.
□ Non-Compliance Level 1	The NYISO certified that the required data that was provided was
	complete, but was not submitted to the NYISO by the specified
	time by one or more designated Market Participants and
	Developers.
□ Non-Compliance Level 2	The NYISO certified that the required data was submitted to the
	NYISO on time, but was incomplete in one or more areas for one
	or more designated Market Participants and Developers.
□ Non-Compliance Level 3	The NYISO certified that one or more Market Participants and
-	Developers did not check the accuracy of its data, or did not
	respond to the NYISO for requests for data verification or
	correction of Suspect Data.
□ Non-Compliance Level 4	The NYISO certified that the required data from one or more
_	designated Market Participants and Developers was not submitted
	to the NYISO.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M12

#### **Reliability Rule Reference**

#### C-R5 Disturbance Recording

#### Measurement

C-M12 The NYISO shall develop requirements and procedures for the installation of disturbance recording devices and the reporting of data to assist in the analysis of NYCA performance during system disturbances. The NYISO shall maintain a database of all NYCA disturbance recording device installations.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:		
NYISO		
Compliance Monitoring Responsibility: Review of NYISO		
Compliance Documentation – RCMS		
Compliance Monitoring Reporting Frequency: On Request		

Levels of Compliance	
□ Full (100%) Compliance	The NYISO has in place requirements and procedures for the installation of disturbance recording devices in the NYCA and the reporting of data to assist in the conduct of system disturbance analyses, in accordance with Measurement C-M12. This documentation was provided to the NYSRC on request.
□ Non-Compliance Level 1	Documentation providing NYISO requirements and procedures for the installation of disturbance recording devices and the reporting of data to assist in the conduct of system disturbance analyses was complete, but the required database of NYCA disturbance recording devices was not provided.
Non-Compliance Level 2	The NYISO had in place documentation providing requirements and procedures for the installation of dynamic recording devices and the reporting of data to assist in the conduct of system disturbance analyses, but was incomplete in one or more areas.
□ Non-Compliance Level 3	Not applicable.
<ul> <li>Non-Compliance Level 4</li> </ul>	The NYISO did not have documentation providing requirements and procedures for the installation of installation of disturbance monitoring devices and the reporting of data to assist in the conduct of system disturbance analyses.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M13

#### **Reliability Rule Reference**

### C-R5 Disturbance Recording

#### Measurement

**C-M13** Market Participants shall install disturbance monitoring devices and report data in accordance with NYISO requirements and procedures.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Market		
Participants		
<b>Compliance Monitoring Responsibility:</b>		
1. Market Participant Compliance Documentation		
NYISO		
2. Review of NYISO Compliance Certification – RCMS		
Compliance Documentation Reporting Frequency: On Request		

Levels of Comphanee	
$\Box$ Full (100%) Compliance	The NYISO certified that all Market Participants have installed
	disturbance monitoring devices and reported data in accordance
	with Measurement C-M13. This documentation was provided to
	the NYSRC on request.
□ Non-Compliance Level 1	The NYISO certified that all Market Participants installed
	disturbance recording devices as required by NYISO procedures,
	but that one or more Market Participants did not report data
	provided by these recordings to the NYISO, as required by these
	NYISO procedures.
□ Non-Compliance Level 2	Not Applicable
-	
□ Non-Compliance Level 3	The NYISO certified that one or more Market Participants did not
-	comply with NYISO requirements by failing to install disturbance
	recording devices as required by NYISO procedures.
□ Non-Compliance Level 4	Not Applicable

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M14

#### **Reliability Rule Reference**

C-R2 Generating Unit Availability and Special Case Resource Performance

#### Measurement

C-M14	<ul> <li>I14 The NYISO shall establish, maintain and follow procedures to address Responsible Interface Party reporting requirements for submitting performance data for all installed capacity associated with Special Case Resources (SCRs), and requirements for calculating SCR performance. These procedures shall be designed to provide estimates of the amount of load reduction that can be expected at the time of a SCR activation for supporting NYSRC and NYISO reliability studies. NYISO SCR performance data reporting and calculation procedures shall include the following requirements:</li> <li>1. Reporting requirements and instructions for Responsible Interface Parties to provide SCR performance data to the NYISO. These instructions shall include requirements that Responsible Interface Parties report data for any SCR that was required to provide load reduction for NYISO-deployed test or event.</li> </ul>	
	2.	Reporting schedules for Responsible Interface Parties to provide SCR performance data to the NYISO.
	3.	NYISO procedures for calculating and measuring SCR performance based on data received from the Responsible Interface Parties (Requirements #1 and #2).
	4.	An annual report that presents SCR performance results for the most recent Capability Year, prepared in accordance with Requirement #3 and specified by the NYSRC. The report shall be submitted to the NYSRC in accordance with NYSRC time schedules, no earlier than 90 days after the end of the Capability Year.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Documentation Reporting Frequency: On Request

<b>L</b>	
$\Box$ Full (100%) Compliance	The NYISO prepared documentation of its Responsible Interface
	Party SCR performance data reporting instructions (C-M14
	Requirements 1 and 2) and SCR performance data calculation
	procedures (C-M14 Requirement 3). The NYISO prepared an
	annual report depicting SCR performance results – as specified by
	the NYSRC – and submitted to the NYSRC in accordance with
	NYSRC time schedules (C-M14 Requirement 4).
□ Non-Compliance Level 1	NYISO SCR performance data reporting instructions and
	calculation procedures were provided when requested, but were

	incomplete relative to C-M14 Requirements 1, 2 or 3; or a SCR performance data report for the previous Capability Year (C- M14 Requirement 4) was provided, but did not follow NYSRC specifications.
□ Non-Compliance Level 2	Not Applicable
Non-Compliance Level 3	The required annual report providing SCR performance data results for the previous Capability Year (C-M14 Requirement 4) was not prepared.
□ Non-Compliance Level 4	NYISO SCR performance data reporting instructions and calculation procedures in accordance with C-M14 Requirements 1, 2 and 3 were not prepared.

### **RESOURCE, SYSTEM & DEMAND DATA REQUIREMENTS** C-M15

#### **Reliability Rule Reference**

C-R2 Generating Unit Availability and Special Case Resource Performance

#### Measurement

C-M15 Responsible Interface Parties serving the NYCA shall provide performance data to the NYISO for their Special Case Resources (SCRs) in accordance with Measurement C-M14 and NYISO procedures, tariffs and schedules..

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Responsible	
Interface Parties	
Compliance Monitoring Responsibility:	
1. Review of Responsible Interface Party Compliance	
Documentation – NYISO	
2. Review of NYISO Compliance Certification – RCMS	
Compliance Documentation Reporting Frequency: On Request	

Levels of Comphance	
$\Box$ Full (100%) Compliance	The NYISO certified that, during the previous Capability Year,
	all Responsible Interface Parties reported required information in
	accordance with C-M15 and applicable NYISO procedures,
	tariffs, and schedules and that the data provided was sufficient to
	provide a statistically valid estimate of the amount of load
	reduction that could be expected at the time of an SCR call.
□ Non-Compliance Level 1	The NYISO certified that one or more Responsible Interface
-	Parties reported SCR information in accordance with NYISO
	instructions during the previous Capability Year, but did not meet
	NYISO reporting schedules.
□ Non-Compliance Level 2	The NYISO certified that one or more Responsible Interface
-	Parties reported SCR information during the previous Capability
	Year, but failed to report this information in accordance with
	NYISO instructions.
□ Non-Compliance Level 3	Not Applicable.
□ Non-Compliance Level 4	The NYISO certified that one or more Responsible Interface
-	Parties failed to report required SCR information during the
	previous Capability Year.

### **OPERATING RESERVES**

**D-M2** 

#### **Reliability Rule Reference**

- **D-R1** Operating Resource Adequacy
- D-R2 Minimum Operating Reserve Requirement
- D-R3 Availability and Category
- **D-R4** Restoration of Ten (10) Minute Reserves

#### Measurement

**D-M2** The NYISO shall maintain procedures and systems that ensure the adequacy of operating reserves, and shall provide documentation of these procedures and systems. The NYISO must notify the NYSRC of any changes to these procedures and systems.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

□ Full (100%) Compliance	In accordance with Measurement D-M2, NYISO has procedures consistent with maintaining the requirements for operating resource adequacy (D-R1), and the requirement to maintain availability and minimum level in all operating reserve categories (D-R2 and D-R3). NYISO commitment and dispatch systems maintain systems maintained resources and operating reserve consistent with the requirements of Reliability Rules D-R1 to D-R4. To the extent necessary these procedures and systems took into consideration Local Reliability Rules I-R1 and I-R2. The NYISO notified NYSRC of any changes to the procedures or systems.
□ Non-Compliance Level 1	NYISO did not have adequate procedures or systems in place, or failed to notify NYSRC of a change to its procedures or systems.
□ Non-Compliance Level 2	Not applicable.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The NYISO did not provide the required procedures.

### **TRANSMISSION CAPABILITY – OPERATING**

**E-M1** 

#### **Reliability Rule Reference**

E-R1 Thermal Assessment

E-R2 Voltage Assessment

E-R3 Stability Assessment

#### Measurement

**E-M1** The NYISO shall maintain procedures and systems that ensure that appropriate actions are taken when thermal, voltage, and/or stability limits are violated. The NYISO must notify the NYSRC of any changes to these procedures and systems.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

Levels of Comphance	
□ Full (100%) Compliance	The NYISO maintained procedures and systems in accordance with Measurement E-M1 which identify appropriate actions to be taken whenever the bulk power transmission system's thermal, voltage, and stability limits are violated. Any revisions to these procedures or systems were reported to the NYSRC.
□ Non-Compliance Level 1	Revisions to existing procedures or systems were not reported to
	the NYSRC.
□ Non-Compliance Level 2	Documentation of NYISO procedures and systems for violation
1	of thermal, voltage, and stability limits was incomplete in one or
	more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	Documentation of NYISO procedures and systems for violation
r r	of thermal, voltage, and stability limits was not provided.

### **TRANSMISSION CAPABILITY – OPERATING**

**E-M3** 

#### **Reliability Rule Reference**

#### E-R5 Outage Coordination

#### Measurement

**E-M3** The NYISO shall maintain procedures and systems which ensure that outages of transmission facilities are coordinated in such a manner to ensure reliability. The NYISO must notify the NYSRC of any changes to these procedures and systems.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

Levels of Comphanee	
□ Full (100%) Compliance	The NYISO maintained transmission outage coordination procedures and systems in accordance with Measurement E-M3. Any revisions to these procedures or systems were reported to the NYSRC.
□ Non-Compliance Level 1	Revisions to existing procedures or systems were not reported to the NYSRC.
Non-Compliance Level 2	Documentation of NYISO procedures and systems for coordination of transmission facility outages was incomplete in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	Documentation of NYISO procedures and systems for coordination of transmission facility outages was not provided.

### **TRANSMISSION CAPABILITY – OPERATING**

#### **Reliability Rule Reference**

E-R6 Operation During Impending Severe Weather

E-R7 Operation During a Severe Solar Magnetic Disturbance

#### Measurement

**E-M4** The NYISO shall maintain procedures and systems which allow for more stringent operating restrictions prior to, and during, severe weather conditions, and severe solar magnetic disturbances. The NYISO must notify the NYSRC of any changes to these procedures and systems.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

Levels of Comphanee	
$\Box$ Full (100%) Compliance	The NYISO maintained procedures and systems for operation
	during severe impending weather or solar magnetic disturbances
	in accordance with Measurement E-M4. Any revisions to these
	procedures or systems were reported to the NYSRC.
□ Non-Compliance Level 1	Revisions to existing procedures or systems were not reported to
	the NYSRC.
□ Non-Compliance Level 2	Documentation of NYISO procedures and systems for operation
-	during severe impending weather or solar magnetic disturbances
	was incomplete in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	Documentation of NYISO procedures and systems for operation
_	during severe impending weather or solar magnetic disturbances
	was not provided.

### **TRANSMISSION CAPABILITY – OPERATING**

**E-M6** 

### **Reliability Rule Reference**

#### E-R8 Fault Current Assessment

#### Measurement

<b>E-M6</b> a.	The NYISO shall perform pre-seasonal assessments, and additional
	re-evaluations if required by system changes, to evaluate fault duty
	at each NYS Bulk Power System station. The NYISO shall notify
	the applicable equipment owner and other potentially affected
	Market Participants of any location expected to exceed equipment ratings.
b.	After the equipment owner has reported its findings on the
	NYISO's assessment (as required by Measurement E-M7), the
	NYISO, in consultation with the equipment owner and the other
	potentially affected Market Participants, shall develop, if
	necessary, an appropriate mitigation plan.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

□ Full (100%) Compliance	The NYISO (a) performed fault duty assessments, and (b)
	developed mitigation plans, if necessary, in accordance with
	Measurement E-M6. Documentation of these assessments and
	mitigation plans were reported to the NYSRC as requested.
□ Non-Compliance Level 1	Not applicable.
$\Box$ Non-Compliance Level 2	Not applicable.
□ Non-Compliance Level 3	The required fault duty assessment was completed, but the
	NYISO failed to notify breaker owners of pending conditions
	whereby fault duty levels may exceed appropriate ratings in
	sufficient time to permit the condition from being prevented.
□ Non-Compliance Level 4	The required fault duty assessment was not completed; or the
	fault duty assessment was completed, but the NYISO failed to
	develop the required mitigation plan.

### **TRANSMISSION CAPABILITY – OPERATING**

E-M7

#### **Reliability Rule Reference**

#### E-R8 Fault Current Assessment

#### Measurement

**E-M7** After evaluating and considering the NYISO assessment concerning a location for which fault duty levels may exceed appropriate equipment ratings, the applicable equipment owner shall assess the condition and report its findings to the NYISO in accordance with NYISO requirements (see Measurement M-6a).

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Equipment	
Owners	
Compliance Monitoring Responsibility:	
1. Review of Equipment Owner Compliance	
Documentation – NYISO	
2. Review of NYISO Compliance Certification – RCMS	
<b>Compliance Documentation Reporting Frequency:</b> On Request	

□ Full (100%) Compliance	The NYISO certified that all applicable equipment owners evaluated NYISO assessments concerning locations for which fault duty levels may exceed equipment ratings and reported their
	findings to the NYISO in accordance with NYISO requirements
	and Measurement E-M7.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The NYISO certified that one or two applicable equipment
-	owners did not evaluate NYISO fault duty assessments as
	required and report their findings to the NYISO.
□ Non-Compliance Level 3	The NYISO certified that three or more applicable equipment
_	owners did not evaluate NYISO fault duty assessments as
	required and report their findings to the NYISO.
□ Non-Compliance Level 4	Not applicable.

### **TRANSMISSION CAPABILITY – OPERATING**

E-M8

#### **Reliability Rule Reference**

#### E-R9 Applications of the NYSRC Reliability Rules

#### Measurement

**E-M8** The NYISO shall establish and maintain Applications of the NYSRC Reliability Rules (Applications) consisting of Transmission Owner procedures for meeting the NYSRC Reliability Rules that apply to specific system locations or conditions. The list of Applications shall be posted on the NYISO web site. The Transmission Owners shall prepare new or revised Applications as required. Applications proposed by Transmission Owners shall be referred to the NYISO for approval. The NYISO shall advise the NYSRC when Application changes occur. The NYISO shall prepare a procedure addressing the above requirements.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

□ Full (100%) Compliance	The NYISO established and maintained Applications in accordance with requirements addressed in Measurement E-M8.
□ Non-Compliance Level 1	The NYISO did not advise the NYSRC when Application changes occurred, or the Application List is not up-to-date.
□ Non-Compliance Level 2	The list of Applications was not posted on the NYISO Web site.
□ Non-Compliance Level 3	The NYISO did not prepare an Applications procedure in accordance with E-M8 requirements.
□ Non-Compliance Level 4	A list of Applications was not established.

### **TRANSMISSION CAPABILITY – OPERATING**

#### Reliability Rule Reference E-R10 Exceptions to the NYSRC Reliability Rules

#### Measurement

#### E-M9

The NYISO shall implement actions required for granting new exceptions or modifying or removing current exceptions, as described in NYSRC Policy 1, *Procedure for Reviewing, Developing, Modifying, and Disseminating NYSRC Reliability Rules*. These required NYISO actions shall include:

1. Request each Transmission Owner, at least annually, to assess its exceptions and to determine whether it wishes to request the NYSRC to grant a new exception or modify or remove a current exception.

2. Implementation of a request from the NYSRC to review an application for a new exception or the renewal or modification of a current exception that:

- The NYSRC has received directly from a Market Participant or
- The NYSRC has received from a Transmission Owner via the Annual Exception Review.

3. Following its review pursuant to E-M9.2, the NYISO shall notify the NYSRC if it recommends that the NYSRC approve the granting of the new exception, or whether the current exception should be removed or modified as proposed. The NYISO shall document the reasons for its recommendation, including a finding that there would be no adverse impact to reliability upon issuance of the new exception or removal or modification of the current exception. If the NYISO recommends that the exception request should be rejected by the NYSRC, the NYISO shall document its reasons for such a recommendation.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

□ Full (100%) Compliance	The NYISO initiated certain actions that are required for implementing the NYSRC process of granting new exceptions or modifying or removing current exceptions ("exception changes"), in accordance with E-M9, as follows:
	<ol> <li>Requested each Transmission Owner, at least annually, to review its exceptions and determine whether it wishes to request the NYSRC to grant exception changes, per E- M9.1.</li> </ol>

	<ol> <li>In accordance with NYSRC requests, reviewed Transmission Owner proposals for exception changes, and notified the NYSRC of the results of its reviews and recommendations on a timely basis, per E-M9.2 and E- M9.3.</li> </ol>
□ Non-Compliance Level 1	During a calendar year, the NYISO did not request Transmission
	Owners to review their exceptions to determine whether they
	wish to request exception changes.
$\Box$ Non-Compliance Level 2	N. A.
□ Non-Compliance Level 3	Following a request by the NYSRC, the NYISO did not review
-	and/or provide a recommendation on a proposed exception
	change and provide the NYSRC with the results of its review on a
	timely basis.
□ Non-Compliance Level 4	N. A.

### **OPERATION DURING MAJOR EMERGENCIES**

**F-M1** 

#### **Reliability Rule Reference**

- F-R1 Transmission Thermal Overloads
- F-R2 Post-Contingency STE Rating Violations
- F-R3 High or Low Voltage
- F-R4 Post-Contingency Voltage
- **F-R5** Operating Reserve Deficiency
- F-R6 Stability Limit Violation
- **F-R7** Low Frequency

#### Measurement

**F-M1** The NYISO shall maintain procedures and systems that ensure that appropriate actions are taken when frequency, reserves, thermal, voltage, and/or stability limits are violated. The NYISO must notify the NYSRC of any changes to these procedures and systems.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

The NYISO maintained procedures and systems in accordance
with Measurement F-M1 that ensures all market participants will
respond correctly when frequency, reserves and thermal, voltage
and/or stability limits are violated.
Not applicable.
NYISO procedures were provided, but were incomplete in one or
more areas.
Not applicable.
Procedures were not provided by the NYISO.

### **OPERATION DURING MAJOR EMERGENCIES**

**F-M2** 

#### **Reliability Rule Reference**

- F-R1 Transmission Thermal Overloads
- F-R2 Post-Contingency STE Rating Violations
- F-R3 High or Low Voltage
- F-R4 Post-Contingency Voltage
- F-R5 Operating Reserve Deficiency
- F-R6 Stability Limit Violation
- **F-R7** Low Frequency

#### Measurement

**F-M2** The NYISO shall report to the NYSRC on every instance of a major emergency. Included in this report shall be a description of the incident, a summary of conditions that warranted the change to a major emergency state, a summary of actions taken, and the effectiveness of those actions. A preliminary report shall be provided to the NYSRC within one week of the incident; and a final report, if requested by the NYSRC, shall be provided within one month following the incident.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: As Required

<u> </u>	
□ Full (100%) Compliance	The NYISO provided a preliminary report of major emergencies within one week of an incident. I addition, if requested by the NYSRC, a final report was provided within one month following the incident. These reports were prepared in accordance with Measurement F-M2 and demonstrate what NYISO actions were taken and their effectiveness for meeting NYSRC Reliability Rules.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The required reports were provided following a major emergency, but at least one report was incomplete in one or more areas.
□ Non-Compliance Level 3	The required major emergency reports were provided, but a review indicated that the NYCA system was not operated in accordance with NYSRC Reliability Rules.
Non-Compliance Level 4	At least one of the required major emergency reports was not provided following a reportable incident.

### **OPERATION DURING MAJOR EMERGENCIES**

**F-M3** 

#### **Reliability Rule Reference**

#### F-R8 Load Shedding Allocation

#### Measurement

**F-M3** The NYISO shall maintain procedures and systems that ensure that sufficient load shedding capability exists for both manual and automatic response. The NYISO must notify the NYSRC of any changes to these procedures and systems.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

Levels of Comphanee	
$\Box$ Full (100%) Compliance	The NYISO maintained procedures for ensuring that sufficient
	load shedding capability exists in accordance with Measurement
	F-M3. These procedures included transmission owner reporting
	requirements (see F-M4) and the conduct of NYISO analyses to
	ensure that sufficient load shedding is available to meet the load
	shedding requirements.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Procedures for ensuring that sufficient load shedding capability
	exists were provided, but were incomplete in one or more areas.
□ Non-Compliance Level 3	The required procedures were complete; however, analyses to
	ensure that sufficient load shedding is available were incomplete.
□ Non-Compliance Level 4	The required procedures were not provided.

### **OPERATION DURING MAJOR EMERGENCIES**

**F-M4** 

#### **Reliability Rule Reference**

#### **F-R8** Load Shedding Allocation

#### Measurement

F-M4 Each transmission owner shall report to the NYISO the amount of load that is expected to be shed through automatic and manual load shedding, coincident with the peak load of its transmission district in accordance with NYISO procedures (see Measurement F-M3). The NYISO shall annually report compliance of this requirement to the NYSRC.

#### **Compliance Monitoring Process**

# Compliance Documentation Reporting Responsibility: Transmission Owners

#### **Compliance Monitoring Responsibility:**

- 1. Review of Transmission Owner Compliance Documentation – NYISO
- 2. Review of NYISO Compliance Certification RCMS

#### Compliance Documentation Reporting Frequency: On Request

Levels of Compliance	
$\Box$ Full (100%) Compliance	The NYISO certified that each transmission owner has submitted
	appropriate load shedding documentation in accordance with
	NYISO procedures, and as required under Measurement F-M3,
	ensured that sufficient automatic and manual load shedding is
	available to meet NYISO requirements.
□ Non-Compliance Level 1	The NYISO certified that load shedding documentation was
	submitted from all transmission owners, but was incomplete in
	one or more areas for one or two transmission owners.
□ Non-Compliance Level 2	The NYISO certified that load shedding documentation was
	submitted from all transmission owners, but was incomplete in
	one or more areas for three or more transmission owners.
□ Non-Compliance Level 3	The NYISO certified that load shedding documentation was not
_	provided by one or two transmission owners.
□ Non-Compliance Level 4	The NYISO certified that load shedding documentation was not
	provided by more than three transmission owners.

### **OPERATION DURING MAJOR EMERGENCIES**

**F-M6** 

#### **Reliability Rule Reference**

### F-R5 Operating Reserve Deficiency

#### Measurement

**F-M6** The NYISO shall institute a statewide voltage reduction test during the summer capability period of each year if statewide voltage reduction has not been called for during the early portion of the summer. The results of the test or actual voltage reduction shall be recorded and provided to the NYSRC every year.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: Annually	

<b>L</b>	
$\Box$ Full (100%) Compliance	The NYISO provided the annual results of test or actual statewide
_	voltage reduction within an appropriate time period to the
	NYSRC, in accordance with Measurement F-M6
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	A statewide voltage reduction test was performed if required, but
-	the results of this test or actual voltage reduction were not
	provided to the NYSRC within an appropriate time period.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	A statewide voltage reduction test, if required, was not performed.

### SYSTEM RESTORATION

#### **Reliability Rule Reference**

#### G-R1 System Restoration Plan

#### Measurement

**G-M1** The *NYISO* shall develop and maintain a NYCA System Restoration Plan (NYCA SRP) that will assure the prompt restoration of the NYCA system following a major or total blackout. The *NYCA* SRP shall define that system restoration take place at two integrated levels: restoration of the *NYCA* backbone system in accordance with a *NYISO* System Restoration Plan (NYISO SRP) and restoration of local areas in accordance with transmission owner system restoration plans (transmission owner SRPs). The NYCA SRP shall include the following minimum requirements:

1. Procedures for coordinating the NYISO SRP and the transmission owner SRPs.

2. Required actions to be included in each transmission owner's restoration plan, consistent with *NYISO* procedures and *NYSRC*, NPCC, and NERC criteria.

3. Procedures for coordinating the SRPs of the *NYISO* and neighboring Reliability Coordinators, including restoration of interconnections.

4. Identification of *blackstart facilities* required for implementing the NYISO SRP, including the names, location, megawatt capabilities, megavar capabilities, and unit type.

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:

#### 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 shall determine 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.

In addition, 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 shall designate which steam units shall be tested during each Capability Year in accordance with the above testing requirements.

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.

6. Procedures requiring that each transmission owner identify *blackstart* resources that are necessary for implementing its SRP. These procedures shall also require transmission owners to identify the name, location, megawatt capacity, megavar capacity, and type of *blackstart* resource(s). The identity of transmission SRP *blackstart facilities* shall be made available to the *NYISO* and to affected *transmission owners*. In addition, *NYISO* procedures shall include a requirement that each *Blackstart Provider* 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.) to verify the condition of these critical components in accordance with good industry practice.

7. Identification of the necessary operating instructions and procedures to cover loss of telecommunications channels during a system disturbance.

8. Identification of protocols for disseminating information to operating entities identified in the plan during a system disturbance.

9. Procedures for ensuring that the coordination of *NYISO* and *transmission owner* SRPs be demonstrated by drill or by simulation.

10. Procedures requiring *transmission owners* to notify the *NYISO* of any proposed changes to *transmission owner* SRP facilities or procedures that could effect the coordination of the *NYISO* and *TO* restoration plans at least two months prior to their implementation.

11. Procedures requiring that the *NYISO* and *transmission owner* SRPs be reviewed and updated annually and whenever changes are made in the *NYS Power System*. This review shall evaluate the impact of planned system expansion or reconfiguration on these SRPs,

prior to implementation.

12. Identification of guidelines which provide the basis for alternative restoration actions if normal restoration procedures cannot be executed due to system conditions.

13. Procedures for coordinating annual updates to the *NYISO* SRP and restoration plans of neighboring Reliability Coordinators. (G-R1)

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

$\Box$ Full (100%) Compliance	The NYISO has a NYCA SRP that complies fully with all 13
	requirements as defined in G-M1.
□ Non-Compliance Level 1	The NYISO failed to prepare procedures and complete actions
	necessary for fully complying with one of the requirements within
	G-M1.
□ Non-Compliance Level 2	The NYISO failed to prepare procedures and complete actions
	necessary for fully complying with two of the requirements
	within G-M1.
□ Non-Compliance Level 3	The NYISO failed to prepare procedures and complete actions
-	necessary for fully complying with three of the requirements
	within G-M1.
□ Non-Compliance Level 4	The NYISO failed to prepare procedures and complete actions
-	necessary for fully complying with three or more of the
	requirements within G-M1.

### SYSTEM RESTORATION

#### **Reliability Rule Reference**

G-R1Emergency Restoration ProceduresG-R2Restoration Training and Simulation Programs

#### Measurement

**G-M2** Each transmission owner shall establish and maintain a restoration plan in accordance with the NYCA SRP, NYISO procedures, and Measurement G-M1. This restoration plan shall be coordinated with the restoration plans of other transmission owners and shall be part of the NYCA SRP. The transmission owner SRP shall include procedures to identify blackstart resources that are necessary for implementing its SRP including testing requirements, in accordance with the NYCA SRP and NYISO procedures. Transmission owners shall conduct an annual review of their SRP. Transmission owners shall conduct an annual review of their SRP. Transmission owners shall conduct an annual review of the NYISO SRP. Each transmission owner shall report to the NYISO the completion of the annual training and review.

#### **Compliance Monitoring Process**

# **Compliance Documentation Reporting Responsibility:** Transmission

Owners

#### **Compliance Monitoring Responsibility:**

- 1. Review of Transmission Owner Compliance
  - Documentation NYISO
- 2. Review of NYISO Compliance Certification RCMS

Compliance Documentation Reporting Frequency: On Request

Levels of Comphanee	
□ Full (100%) Compliance	The NYISO certified that each transmission owner has a SRP in accordance with G-M1, G-M2, and NYISO procedures.
Non-Compliance Level 1	The NYISO certified that one or more transmission owners failed to comply with one requirement within G-M1, G-M2, or NYISO procedures.
□ Non-Compliance Level 2	The NYISO certified that one or more transmission owners failed to comply with two requirements within G-M1, G-M2, or NYISO procedures.
□ Non-Compliance Level 3	The NYISO certified that one or more transmission owners failed to comply with three requirements within G-M1, G-M2, or NYISO procedures.
□ Non-Compliance Level 4	The NYISO certified that one or more transmission owners failed to comply with four or more requirements within G-M1, G-M2, or NYISO procedures.

### SYSTEM RESTORATION

#### **Reliability Rule Reference**

G-R1Emergency Restoration ProceduresG-R2Restoration Training and Simulation Programs

#### Measurement

**G-M3** Each Black Start Provider shall develop and implement appropriate test procedures in accordance with G-M1, G-M2, 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:

### 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.

In addition, 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.

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.

In addition, 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. Black Start Providers shall attend NYISO and transmission owner restoration training as required.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: Black Start
Provider
Compliance Monitoring Responsibility:
1. Review of Black Start Provider Compliance
Documentation – NYISO
2. Review of NYISO Compliance Certification – RCMS
Compliance Documentation Reporting Frequency: On Request

Levels of Compliance	
□ Full (100%) Compliance	As defined in G-M1, G-M3, and G-M4, the NYISO certified that for the Capability Year specified by the NYSRC: (1) it received the annual letter from each Black Start Provider confirming that it maintained a list of critical components and tests these components accordingly, (2) it received sufficient documentation from each Black Start Provider showing that the Black Start Provider developed required test procedures and accordingly successfully tested its black start facilities for each Capability Year , and (3) each Black Start Provider met NYISO training requirements.
Non-Compliance Level 1	The NYISO certified that, for the Capability Year specified by the NYSRC, one Black Start Provider did not provide a letter to the NYISO satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with G-M1, G-M2, & G-M3, and NYISO or transmission owner procedures.
□ Non-Compliance Level 2	The NYISO certified that, for the Capability Year specified by the NYSRC, two Black Start Providers did not provide a letter to the NYISO satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with G-M1, G-M2, G-M3, and NYISO or transmission owner procedures and schedules.
Non-Compliance Level 3	The NYISO certified that, for the Capability Year specified by the NYSRC, three Black Start Providers did not provide a letter to the NYISO satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with G-M1, G-M2, G-M3, and NYISO or transmission owner procedures and schedules. OR

	The NYISO certified that one or more Black Start Providers failed to attend restoration training as required by the NYISO or transmission owner.
Non-Compliance Level 4	The NYISO certified that, for the Capability Year specified by the NYSRC, four or more Black Start Providers did not provide a letter to the NYISO satisfying required testing of critical facility components, or did not comply with black start facility testing requirements in accordance with G-M1, G-M2, G-M3, and NYISO or transmission owner procedures or schedules.

### SYSTEM RESTORATION

#### **Reliability Rule Reference**

#### **G-R2** Restoration Training and Simulation Programs

#### Measurement

- **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, in accordance with the following requirements:
  - 1. NYISO procedures requiring coordinated training to be conducted at least annually by the *NYISO* and each transmission owner.
  - 2. NYISO training procedures including restoration simulation exercises that include modeling of each transmission owner's SRP.
  - 3. Conduct of annual simulations of full or partial system shutdowns and restoration, including the issuance of critique reports of their respective tests.
  - 4. NYISO training procedures requiring Blackstart Providers and other generator owners to participate in training sessions and exercises as appropriate.
  - 5. Maintaining 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.
  - 6. NYISO procedures for certifying that transmission owner operating personnel have been trained on the transmission owner SRPs consistent with the requirements of *NYISO* SRP training procedures. The procedures shall require transmission owners to provide the *NYISO* restoration training program records upon request.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

Levels of comphance	
$\Box$ Full (100%) Compliance	The NYISO system restoration training program is in accordance
	with all six requirements defined in G-M4.
□ Non-Compliance Level 1	The NYISO system restoration training program does not address
_	one of the requirements of G-M4.
□ Non-Compliance Level 2	The NYISO system restoration training program does not address
	two of the requirements of G-M4.
□ Non-Compliance Level 3	The NYISO system restoration training program does not address
-	three of the requirements of G-M4.
□ Non-Compliance Level 4	The NYISO system restoration training program does not address
-	four or more of the requirements of G-M4.

### SYSTEM PROTECTION

#### **Reliability Rule Reference**

#### H-R1 Bulk Power System Protection

#### Measurement

**H-M1** The NYISO shall provide the NYSRC with compliance documentation and data in accordance with NPCC Directory #4, "Bulk Power System Protection Criteria," and requirements of the NPCC and NERC Compliance Programs, as requested.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

Levels of Comphance	
□ Full (100%) Compliance	On request, the NYISO provided the NYSRC with compliance documentation and data associated with proposed protection systems, in accordance with Measurement H-M1. The information provided meets NPCC procedures and will be coordinated with NPCC reliability compliance program submissions.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Compliance documentation was provided, but was incomplete in one or more areas.
□ Non-Compliance Level 3	Compliance documentation was provided, but it showed that proposed NYCA protection systems do not meet NPCC Document A-5 criteria in one or more areas.
□ Non-Compliance Level 4	Compliance documentation was not provided.

### SYSTEM PROTECTION

#### **Reliability Rule Reference**

### H-R2 Bulk Power System Protection Maintenance

#### Measurement

**H-M2** The NYISO shall provide the NYSRC with compliance documentation and data for meeting the requirements of the NYISO system protection maintenance procedure required by Measurement H-M3, as requested.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

Levels of Comphanee	
□ Full (100%) Compliance	Upon request, the NYISO submited a report to the NYSRC on testing and maintenance of NYCA protection systems, in accordance with Measurement H-M3. The maintenance report shows that the protection system maintenance and testing programs of the NYCA protection system owners comply fully with the requirements of NYISO procedures and NPCC Directory #3.
□ Non-Compliance Level 1	Not applicable.
Non-Compliance Level 2	Review of the NYISO report showed that the maintenance and testing programs did not meet NPCC and NYSRC criteria or other requirements in accordance with the NYISO system protection maintenance procedure required by Measurement H- M3.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	No maintenance report was provided to the NYSRC when requested.

### SYSTEM PROTECTION

#### H-R2 Bulk Power System Protection Maintenance

#### Measurement

**H-M3** The NYISO shall establish and maintain a procedure for monitoring compliance with the NPCC Directory #3, "Maintenance Criteria for Bulk Power System Protection," as applied to the New York Control Area. This procedure shall include a description of how the system of compliance reporting is implemented within the NYISO.

#### **Compliance Monitoring Process**

<b>Compliance Documentation Reporting Responsibility:</b>
NYISO
Compliance Monitoring Responsibility: Review of NYISO
Compliance Documentation – RCMS
Compliance Monitoring Reporting Frequency: On Request

L	
$\Box$ Full (100%) Compliance	The NYISO established and maintained a system protection
	maintenance procedure in accordance with Measurement H-M3.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The NYISO has the required procedure in place, but it is
	incomplete on one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The required NYISO procedure was not available or was not
_	provided.

### LOCAL RELIABILITY RULES

I-M1

#### **Reliability Rule Reference**

- I-R1 Operating Reserves/Unit Commitment (New York City)
- I-R3 Loss of Generator Gas Supply (New York City)
- I-R4 Thunderstorm Watch (New York City)

#### Measurement

**I-M1** The NYISO shall document, maintain, and publish requirements for Con Edison to develop procedures for operating its system in accordance with I-R1, I-R3, and I-R4, including notification of the NYISO when actions are taken in accordance with these local reliability rules, and the reasons thereof. The NYISO shall review and approve Con Edison procedures and required studies, including any updates to such procedures and studies.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

Levels of compliance	
$\Box$ Full (100%) Compliance	The NYISO made available, and provided upon request, complete
	documentation for implementing I-R1, I-R3, and I-R4 in
	accordance with Measurement I-M1.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	NYISO documentation for implementing I-R1, I-R3, and I-R4
	was provided when requested, but was incomplete in one or more
	areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The required NYISO documentation for implementing Rules I-
	R1, I-R3, and I-R4 was not provided when requested.

### LOCAL RELIABILITY RULES

#### **Reliability Rule Reference**

### I-R5 Loss of Generator Gas Supply (Long Island)

#### Measurement

**I-M2** The NYISO shall document, maintain, and publish requirements for LIPA to develop procedures for operating its system in accordance I-R5, including notification of the NYISO when action is taken in accordance with this local reliability rule and the reasons thereof. The NYISO shall review and approve LIPA procedures and required studies, including any updates to such procedures and studies.

#### Responsibilities

Reporting Frequency: On Request Reporting Responsibility: NYISO Compliance Monitoring Responsibility: NYSRC RCMS Oversight Review Responsibility: N/A

<b>L</b>	
$\Box$ Full (100%) Compliance	The NYISO made available and provided when requested,
	complete documentation for implementing I-R5, in accordance
	with Measurement I-M2.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	NYISO documentation for implementing I-R5 was provided
	when requested, but was incomplete in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The required NYISO documentation for implementing I-R5 was
	not provided when requested.

### LOCAL RELIABILITY RULES

#### **Reliability Rule Reference**

#### I-R2 Locational Reserves (New York City)

#### Measurement

**I-M3** The NYISO shall have in place procedures to ensure that sufficient ten (10) minute reserves are maintained in the NYC zone in accordance with I-R2.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

Levels of complaince	
$\Box$ Full (100%) Compliance	The NYISO has procedures in place and operated the NYCA
	system to ensure implementation of I-R2, in accordance with
	Measurement I-M3.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The NYISO has procedures in place, but they are incomplete in
	one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The required NYISO procedures not available or were not
	provided.

### LOCAL RELIABILITY RULES

**Reliability Rule Reference** 

- I-R1 Operating Reserves/Unit Commitment (New York City)
- I-R2 Locational Reserves (New York City)
- I-R3 Loss of Generator Gas Supply (New York City)
- I-R4 Thunderstorm Watch (New York City)
- I-R5 Loss of Generator Gas Supply (Long Island)

#### Measurement

**I-M4** The NYISO shall apply I-R1 through I-R5 in:

- a. the assessment of future transmission capability and analysis of transmission adequacy and security.
- b. the establishment of operating limits, assessment of operating adequacy, and operation on the NYS bulk power system.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: Annually

□ Full (100%) Compliance	The NYISO applied Reliability Rules I-R1 through I-R4 in accordance with Measurement I-M4. Application of these Rules in assessing future transmission capability and analysis of transmission adequacy and security was documented in the annual the NYCA Transmission Review. Application of these Rules for establishing operating limits, assessing operating adequacy, and operating the NYS Bulk Power System was documented on request.
$\Box$ Non-Compliance Level 1	Not applicable.
<ul> <li>Non-Compliance Level 2</li> </ul>	The NYCA Transmission Review included a review of Reliability Rules I-R1 through I-R4, but the assessment was incomplete; or the NYISO did not provide adequate documentation that these Rules were considered in system operations.
□ Non-Compliance Level 3	The NYCA Transmission Review did not include a consideration of Rules I-R1 through I-R4.
□ Non-Compliance Level 4	No documentation was provided showing that Rules I-R1 through I-R4 were considered in system operations.

### LOCAL RELIABILITY RULES

#### **Reliability Rule Reference**

- I-R1 Operating Reserves/Unit Commitment (New York City)
- I-R3 Loss of Generator Gas Supply (New York City)
- I-R4 Thunderstorm Watch (New York City)

#### Measurement

**I-M5** Con Edison shall have in place procedures for operating its system in accordance with I-R1, I-R3, and I-R4 and NYISO requirements (see I-M1). These procedures must include notification to the NYISO when actions are taken in accordance with these local reliability rules, and the reasons thereof.

#### **Compliance Monitoring Process**

### Compliance Documentation Reporting Responsibility: Con Edison Compliance Monitoring Responsibility: 1. Review of Con Edison Compliance Documentation – NYISO

2. Review of NYISO Compliance Certification – RCMS

Compliance Documentation Reporting Frequency: On Request

The NYISO certified that Con Edison submitted, when requested,
documents, reports, and analyses in accordance with NYISO
requirements and Measurement I-M5.
Not applicable.
Con Edison transmitted requested information to the NYISO, but
the submitted documents, reports, and analyses did not meet
NYISO requirements in one or more areas.
Not applicable.
Con Edison failed to supply the NYISO with requested
documents, reports, and analyses.

### LOCAL RELIABILITY RULES

#### **Reliability Rule Reference**

### I-R5 Loss of Generator Gas Supply (Long Island)

#### Measurement

**I-M6** LIPA shall have in place procedures for operating its system in accordance with I-R5 and NYISO requirements (see I-M2). These procedures must include notification to the NYISO when actions are taken in accordance with the local reliability rules and the reasons thereof.

#### **Compliance Monitoring Process**

#### **Compliance Documentation Reporting Responsibility:** Long Island Power Authority

### **Compliance Monitoring Responsibility:**

- 1. Review of Long Island Power Authority
  - Compliance Documentation NYISO
- 2. Review of NYISO Compliance Certification RCMS

### Compliance Documentation Reporting Frequency: On Request

□ Full (100%) Compliance	The NYISO certified that LIPA submitted, when requested,
_	documents, reports, and analyses in accordance with NYISO
	requirements and Measurement I-M5.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	LIPA transmitted requested information to the NYISO, but the
-	submitted documents, reports, and analyses did not meet NYISO
	requirements in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	LIPA failed to supply the NYISO with requested documents,
_	reports, and analyses.

### NYISO CONTROL CENTER COMMUNICATIONS

**J-M1** 

#### **Reliability Rule Reference**

J-R1 NYISO/ Market Participant Communications

J-R2 NYISO Communications Under Emergency Conditions

#### Measurement

**J-M1** The NYISO shall develop the necessary procedures and other required documentation in compliance with J-R1 and J-R2, which shall be provided to the NYSRC on request.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:		
NYISO		
Compliance Monitoring Responsibility: Review of NYISO		
Compliance Documentation – RCMS		
Compliance Monitoring Reporting Frequency: On Request		

Levels of Comphanee	
$\Box$ Full (100%) Compliance	The NYISO established procedures for NYISO to Market
	Participant communications such that communications are
	consistent, efficient, and effective during normal and emergency
	conditions. These procedures included requirements for enabling
	operation to continue during loss of communication facilities,
	including specific requirements of Reliability Rules J-R1 and J-
	R2 and NPCC and NERC criteria.
□ Non-Compliance Level 1	Not applicable.
$\Box$ Non-Compliance Level 2	NYISO operator communications procedures have been
	developed, but they do not include all of the required items.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	There are no NYISO communications procedures in place.

### NYISO CONTROL CENTER COMMUNICATIONS

#### **Reliability Rule Reference**

### J-R2 NYISO Communications Under Emergency Conditions

#### Measurement

**J-M2** The NYISO shall prepare reports summarizing performance data of control center communication interfaces. These reports shall be provided to the NYSRC on request or when significant changes are made, and shall include a tracking basis of historical performance of voice and data communication equipment.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

When requested, the NYISO provided the NYSRC reports
providing performance data of control center communications
interfaces in accordance with Measurement J-M2.
Not applicable.
The required NYISO report was provided when requested, but
was incomplete in one or more areas.
Not applicable.
The required NYISO report was not provided when requested.

### **Compliance Templates NYSRC Reliability Rules** NYISO CONTROL CENTER COMMUNICATIONS

**J-M3** 

#### **Reliability Rule Reference**

### J-R2 NYISO Communications Under Emergency Conditions

#### Measurement

**J-M3** The NYISO shall provide to the NYSRC within one month a report summarizing any loss of critical voice and/or data systems. The report shall describe the problem and its relationship to the control of the NYS Bulk Power System, the cause of the problem, the corrective action, and implementation schedule.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: As Required	

$\Box$ Full (100%) Compliance	The NYISO provided to the NYSRC a report of the loss of
	critical voice and data systems in accordance with Measurement
	J-M3.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The required NYISO report was provided, but was incomplete in
	one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The required NYISO report was not provided.

### **RELIABILITY ASSESSMENT**

#### **Reliability Rule Reference**

### K-R1 NYISO Manuals

#### Measurement

**K-M1** The NYISO Planning and Operating Manuals shall be prepared by the NYISO in conformance with the Reliability Rules and submitted to the NYSRC for compliance review on request.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: On Request	

Levels of Comphanee	
□ Full (100%) Compliance	In accordance with Measurement K-M1, the NYISO provided the NYSRC with a self assessment on the compliance of its planning and operating manuals with the Reliability Rules. The scope of these self assessments were based on NYSRC guidelines.
$\Box$ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	A self assessment was provided, but was incomplete in one or more areas.
□ Non-Compliance Level 3	The self assessment shows that procedure(s) in the manual do not
	meet Reliability Rules.
□ Non-Compliance Level 4	The self-assessment was not provided.

### **RELIABILITY ASSESSMENT**

### **Reliability Rule Reference**

### K-R2 Reliability Assessments

#### Measurement

K-M2.a	The NYISO shall conduct, and provide to the NYSRC, the following reliability assessment:
	A transmission review to demonstrate that the planned NYCA transmission system is in conformance with NYSRC Reliability Rules. Specifically, the transmission review shall incorporate assessments for documenting NYISO compliance with the following NYSRC measurements:
	1. Measurement B-M1 – Thermal, voltage, stability, and short circuit assessments.
	2. Measurement B-M2 – Extreme contingency assessment.
	3. Measurement B-M3 – Compatibility with the NYCA system restoration plan.
	4. Measurement I-M4 – Compatibility with NYSRC Local Rules.
	5. Measurement K-M3 – Extreme system conditions.
	The NYCA transmission review and its accompanying assessments shall cover the 4-6 year planning horizon and shall be prepared annually. The B-M1, B-M2 and K-M3 assessments shall cover system performance results of simulation tests and shall include all supporting documentation specified in NPCC Document B-4, <i>Guidelines for NPCC Area Transmission Review</i> , which shall be supplemented to include additional documentation that may be requested by the NYSRC.

### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: Annually	

□ Full (100%) Compliance	The NYISO prepared the annual assessment of the NYCA in
	accordance with Measurement K-M2a, which demonstrates that
	the performance of the NYCA system is in compliance with
	Reliability Rules B-R1, B-R2, B-R3, B-R4, and B-R7 as required
	by Measurements B-M1 and B-M2. The format of the report was
	consistent with NPCC Guideline B-4 requirements.

□ Non-Compliance Level 1	A NYCA Transmission Review was submitted, but did not fully
_	meet NPCC Document B-4 requirements.
□ Non-Compliance Level 2	The NYCA Transmission Review that was submitted found that
_	the NYCA planned transmission system was in non-compliance
	with NYSRC Reliability Rules B-R1. B-R2. B-R3, and/or B-R4
	in one or more instances. The NYISO submitted an acceptable
	plan and schedule for addressing the instances of non-compliance.
□ Non-Compliance Level 3	The NYCA Transmission Review that was submitted found that
	the NYCA planned transmission system was in non-compliance
	with NYSRC Reliability Rules B-R1. B-R2. B-R3, and/or B-R4
	in one or more instances. However, either the NYISO failed to
	submit a plan and schedule for addressing the instances of non-
	compliance, or the plan that was submitted was found to be
	unacceptable
□ Non-Compliance Level 4	A NYCA transmission review was not submitted.

### **RELIABILITY ASSESSMENT**

#### **Reliability Rule Reference**

#### K-R2 Reliability Assessments

#### Measurement

**K-M2.b** The NYISO shall conduct, and provide to the NYSRC, the following reliability assessment:

A NYCA resource adequacy assessment for the next summer period and two years beyond, for demonstrating next capability period compliance with the NYSRC installed reserve margin requirement and NYISO locational installed capacity requirements, and prospective future compliance. The assessment shall include statewide and New York City and Long Island resource adequacy.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: Annually

Levels of comphance	
□ Full (100%) Compliance	The NYISO submitted the annual NYCA resource adequacy assessment report to the NYSRC in accordance with Measurement K-M2.b. During a year when the NYISO was required by NPCC to submit a New York Area Resource Adequacy Study, submission of that report to the NYSRC for compliance review would meet this requirement.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	A NYCA resource adequacy assessment was submitted to the NYSRC, but the report was deficient in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	A NYCA resource adequacy assessment was not submitted to the NYSRC.

### **RELIABILITY ASSESSMENT**

#### **Reliability Rule Reference**

### K-R2 Reliability Assessments

#### Measurement

**K-M2.c** The NYISO shall conduct, and provide to the NYSRC, the following reliability assessment:

Interregional reliability assessments for ensuring that the NYCA inter-control area and internal transmission system is developed on a coordinated basis. Reports on these assessments shall be provided as requested by the NYSRC.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
<b>Compliance Monitoring Reporting Frequency:</b> On Request	

Levels of compliance	
□ Full (100%) Compliance	The NYISO provided to the NYSRC interregional assessments in accordance with Measurement K-M2.c. As requested by the NYSRC, these reports were either NPCC interregional assessments having NYISO participation, studies sponsored by the NYISO, or special studies prepared by the NYISO as required by the NYSRC.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Requested interregional reliability assessments were provided, but were incomplete in one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	Requested interregional reliability assessments were not provided.

### **RELIABILITY ASSESSMENT**

### **Reliability Rule Reference**

### K-R2 Reliability Assessments

#### Measurement

K-M2.d	The NYISO shall provide a monthly operations report that provides data on the performance of the NYCA for the previous month, covering the following requirements:
	1. Occurrences of major emergency and alert states.
	2. Summary of the NERC/NPCC Control Performance.
	3. A list of NPCC Reportable Events.
	4. Reserve requirements and actual reserves for the monthly peak load hour for all reserve categories (10 minute synchronized, 10 minute non-synchronized, and 30 minute operating reserves.) The report shall distinguish between supply and demand side resources. (D-R1 through D-R3)
	5. The response of the system to activations of reserve, including: the number of occasions reserves were activated in the month, reasons for the reserve activations, number of occasions within the month in which the reserve activation did not result in an area control error ("ACE") zero crossing, number of non-zero crossings associated with a unit loss, and number of non-zero crossings requiring another reserve activation. (D-R4)
	6. Performance of the transmission system (E-R1 through E-R4), with respect to the number of events resulting in facilities exceeded system operating limits resulting in Alert States or Major Emergencies, including pre-contingency <i>thermal</i> and <i>voltage limits</i> , post-contingency <i>thermal</i> and <i>voltage limits</i> , and <i>stability limits</i> .
	7. A report of the number of more stringent events in which operating restrictions were imposed, resulting in an Alert or Major Emergency State due to severe weather conditions and/or severe solar magnetic <i>disturbances</i> . (E-R6, R7)
	8. Emergency actions initiated, including: emergency assistance from neighboring Control Areas, manual (local) voltage reductions, quick response (remote control) voltage reductions (5 and 8%), voluntary load curtailment, public appeals, Special Case Resources, Emergency Demand Response Program, and load shedding. For each emergency action the report shall include: (a) the date of the emergency action; (b) the zone(s) where the emergency action was implemented; (c) an estimate of the MW capacity addition or load relief achieved, by zone; and (d) the reason(s) why the emergency action was implemented. (F-R5)
	9. Other analyses and indices identified by the <i>NYSRC</i> Executive Committee for monitoring the <i>security</i> of the system.

Compliance Monitoring Process Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: Monthly

Levels of Comphance	
$\Box$ Full (100%) Compliance	The NYISO submitted a monthly operations report for the
	previous month in accordance with the nine Requirements defined
	in Measurement K-M2.d.
□ Non-Compliance Level 1	The NYISO submitted a monthly operations report, but the report
-	wasw incomplete relative to one of the Requirements defined in
	K-M2d
□ Non-Compliance Level 2	The NYISO submitted a monthly operations report, but thereport
-	was incomplete relative to two of the Requirements defined in K-
	M2d.
□ Non-Compliance Level 3	The NYISO submitted a monthly operations report, but the report
-	was incomplete relative to three or more of the Requirements
	defined in K-M2d.
□ Non-Compliance Level 4	The NYISO did not submit a monthly operations report for the
-	previous month.

### Compliance Templates NYSRC Reliability Rules RELIABILITY ASSESSMENT

#### **Reliability Rule Reference**

K-R2 Reliability Assessments

#### Measurement

**K-M2.e** The NYISO shall conduct, and provide to the NYSRC, the following reliability assessment:

Special reliability assessments that may be requested by the NYSRC.

#### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

$\Box$ Full (100%) Compliance	The NYISO conducted all special reliability assessments as
	requested by NYSRC in accordance with Measurement K-M2.e.
	The scope and schedule of such assessments was jointly
	developed by the NYISO and NYSRC.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	The reliability assessment was provided, but was incomplete in
	one or more areas.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The reliability assessment was not provided.

### **RELIABILITY ASSESSMENT**

#### **Reliability Rule Reference**

### K-R2 Reliability Assessments

#### Measurement

**K-M2.g** The NYISO shall conduct, and provide to the NYSRC, the following reliability assessment:

Copies of additional system reliability assessments requested by NPCC, but not covered above.

Compliance Monitoring Process Compliance Documentation Reporting Responsibility: NYISO Compliance Monitoring Responsibility: Review of NYISO Compliance Documentation – RCMS Compliance Monitoring Reporting Frequency: On Request

□ Full (100%) Compliance	The NYISO furnished the NYSRC a copy of reliability
	assessments, in accordance with Measurement K-M2.g.
□ Non-Compliance Level 1	Not applicable.
□ Non-Compliance Level 2	Not applicable.
□ Non-Compliance Level 3	Not applicable.
□ Non-Compliance Level 4	The NYISO did not provide the NYSRC with a copy of the
	requested reliability assessment.

### **Extreme System Conditions Assessment**

#### **Reliability Rule Reference**

#### K-R3 Extreme System Conditions Assessment

#### Measurement

**K-M3** The NYISO shall incorporate special simulation testing to assess the impact of Extreme System Conditions on the NYS Bulk Power System, and where appropriate, develop plans to mitigate the consequences that are indicated by these assessments. These tests shall show the impacts on steady state and dynamic performance of extreme condition events "a" and "b" specified in Reliability Rule K-R3. The scope of these studies shall meet NPCC guidelines for transmission and resource adequacy assessments. The NYISO shall report the results of these assessments, including evaluations of mitigation measures for any cases that conclude serious consequences, as part of NYCA transmission and resource adequacy assessment K-M2.

### **Compliance Monitoring Process**

Compliance Documentation Reporting Responsibility:	
NYISO	
Compliance Monitoring Responsibility: Review of NYISO	
Compliance Documentation – RCMS	
Compliance Monitoring Reporting Frequency: Annually	

□ Full (100%) Compliance	The NYISO assessed the impact of Extreme System Conditions and developed plans to mitigate the consequences of such impacts, in accordance with Measurement K-M3. The results of these assessments were included in NYISO reports covering annual NYCA transmission and resource adequacy assessments, required by Measurement K-M2.
□ Non-Compliance Level 1	An Extreme System Condition assessment and mitigation plans for all specified events were included in the NYCA transmission or resource adequacy assessment report, but was incomplete in meeting NYSRC requirements or NPCC transmission or resource adequacy guidelines.
Non-Compliance Level 2	An Extreme System Condition assessment was submitted for all specified events, but mitigation plans were not included or were found unacceptable.
□ Non-Compliance Level 3	An Extreme System Condition assessment was submitted, but did not include evaluations and mitigation plans for all specified events.
□ Non-Compliance Level 4	An Extreme System Condition assessment was not submitted.

### **III. VERSION HISTORY**

## **COMPLIANCE TEMPLATE MANUAL**

Version	Date	Changes
1	7/1/02	Initial version (includes RR Manual Versions 1-4 changes)
2	11/12/02	New Compliance Template for new Measurement J-M2 (PRR
		#53); New Compliance Template for new Measurement B-M4
		(PRR #54); Table of Contents; New Section: Compliance
		Templates Version History
3	3/14/03	Revised Compliance Template for Measurement B-M1 (PRR
		#29); Revised Compliance Template for Measurement C-M1
		(PRR #50); New Compliance Templates for Measurements C-
		M9&10 (PRR #58)
4	5/9/03	Revised Compliance Template for Measurement H-M2 and new
		Compliance Template for Measurement H-M3 (PRR #55)
5	10/7/03	New Compliance Templates for Measurement E-M6 & E-M7
		(PRR #57); New Compliance Template for Measurement C-M11
		(PRR #63); Revised Compliance Template for Measurement
		E-M2 and New Compliance Template for Measurement F-M5
		(PRR #64)
6	1/9/04	Revised Compliance Template for Measurement G-M1
		(PRR #66)
7	12/17/04	Revised Compliance Template for Measurement J-M2 and New
	- 12 IO -	Compliance Template for J-M3 (PRR #67)
8	5/2/05	New Compliance Template for Measurement F-M6 (PRR #77)
9	8/12/05	New Compliance Templates for Measurement K-M3 (PRR #72)
10	10/14/05	and Measurements C-M12 & C-M13 (PRR #69)
10	10/14/05	Revised Compliance Templates for Measurements C-M1, C-M2,
		and C-M3 (PRR #73); Revised Compliance Template for
		Measurement F-M2 and Removal of Compliance Template for
11	12/0/05	K-M2e (PRR #78)
11	12/9/05	Revised Compliance Templates for Measurements C-M9 and C-M11 (PRR #74)
12	3/10/06	Revised Compliance Templates for Measurements G-M1, G-M2,
12	3/10/00	G-M3, and G-M4 (PRR #76); New Compliance Template for
		Measurement E-M8 (PRR #79); Revised Compliance Template
		for Measurement C-M5 (PRR #80); Revised Compliance
		Template for Measurement E-M7 (PRR #81); Revised
		Compliance Template for Measurement F-M4 (PRR #82);
		Revised Compliance Template for Measurements I-M5 and I-M6
		(PRR #83)
13	4/13/07	Revised Compliance Template for Measurement B-M1 (PRR
		#86); Revised Compliance Template for Measurement B-M3
		(PRR #90); Revised Manual Introduction

	IN I SIC Reliability Rules	
14	7/13/07	Revised Compliance Templates for Measurements I-M2, I-M4
		and I-M6 (PRR #88); Revised Compliance Template for
		Measurement G-M1 (PRR #92)
15	12/14/07	Revised Compliance Template for Measurement D-M1 (PRR
		#93); New Compliance Template for Measurement E-M9 (PRR
		#94)
16	05/09/08	Revised Compliance Template for Measurement G-M2 and G-M4
		(PRR #95)
17	1/9/09	Revised Compliance Templates for Measurements C-M1, C-M2
		and C-M3 (PRR #96); Revised Compliance Template for
		Measurement K-M2a (PRR #98)
18	8/14/09	Revised Compliance Templates for Measurements G-M1 through
		G-M3 (PRR #99).
19	10/9/09	Revised Compliance Templates for Measurements C-M4 through
		C-M6 (PRR 101).
20	12/4/09	Revised Measurement K-M2d, retirement of Measurements
		D-M1, D-M3, E-M2, E-M5, and F-M5 (PRR #102)
21	7/9/10	Revised Measurements C-M9 and C-M11 (PRR 103)
22	1/7/11	Revised Measurements C-M1 and C-M3 (PRR #104); Revised
		Measurement E-M9 (PRR #105); Revised Measurements G-M1
		and G-M3 (PRR #106)
23	11/10/11	Revised compliance elements for Measurements C-M8, H-M2,
		I-M1, I-M2, and J-M2 (PRR 107)
24	5/11/12	New compliance templates for Measurements C-M14 and C-M15
		(PRR 109); Revised Full Compliance statements for all
		compliance templates stating compliance requirements in the past
		tense.
25	1/11/13	Revised Measurements G-M1 and G-M3 (PRR 114); Revised
		Manual Introduction.