

# **NEW YORK STATE RELIABILITY COUNCIL**

## *2021 Reliability Compliance Program Highlights*

*Prepared by the  
Reliability Compliance  
Monitoring Subcommittee*

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# NYSRC 2021 Reliability Compliance Program Highlights

## Introduction

This report presents the highlights of the 2021 New York State Reliability Council (NYSRC) Reliability Compliance Program, the major process used by the NYSRC to monitor the New York Independent System Operator (NYISO) compliance with the Reliability Rules<sup>1</sup> and related Requirements.<sup>2</sup>

The NYSRC Reliability Compliance Program is designed to measure and ensure compliance with NYSRC Reliability Rules in order to provide for a reliable bulk electric supply and delivery system in New York State. The NYSRC Reliability Compliance Monitoring Subcommittee (RCMS) manages the compliance program, which includes conducting reviews to ensure that the NYISO is in compliance with all NYSRC Reliability Rules, including those identified in the Rules as requiring actions by market participants. The NYISO has the responsibility of ensuring market participant compliance through its procedures and Tariffs`. The objective of the compliance program is to encourage compliance with the NYSRC Reliability Rules necessary to preserve the reliability of the New York Control Area.

The NYISO and market participants are responsible for complying with the reliability requirements related to the Reliability Rules. Full compliance with a reliability requirement, as defined by an associated measure, is demonstrated by evidence provided by the NYISO or a market participant. The Reliability Rules also include levels of non-compliance and a description of the compliance process associated with each measure. These compliance elements are described in detail in the Introduction to the RR&C Manual.

Compliance with the NYSRC Reliability Rules is reviewed and evaluated in accordance with NYSRC Policy 4-8, *Procedure for Monitoring Compliance with the NYSRC Reliability Rules*, at: <http://www.nysrc.org/policies.asp>.

In 2020 a three-year NYSRC compliance review plan covering the 2021-23 period, prepared by RCMS, was approved by the Executive Committee. The 2021 NYSRC Reliability Compliance Program represented the first year of this three-year compliance program.

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<sup>1</sup> The reliability objective that is expected to be achieved through compliance with a set of related Requirements.

<sup>2</sup> The actions that shall be performed or outcomes that shall be achieved by the NYISO or Market Participants in order to comply with the reliability objective of an associated Reliability Rule. Requirements are material to reliability and are measurable

## 2021 NYSRC Reliability Compliance Program

In 2021 the NYSRC maintained a total of 92 Requirements associated with 27 Reliability Rules. The 2021 Reliability Compliance Program included 28 assessments which reviewed NYISO and market participant compliance with a total of 55 Requirements or 60% of NYSRC’s Requirements.

As shown in Table 1 below, the 2021 NYSRC Reliability Compliance Program incorporated a total of 28 reliability assessments which included compliance reviews of 50 Requirements having NYISO reporting responsibility and five Requirements having market participant reporting responsibility. Table 1 also shows that the NYISO and market participants were in full compliance with all Requirements for which compliance was reviewed in the 2021 NYSRC Reliability Compliance Program.

**Table 1**  
**2021 NYSRC Compliance Program Summary**

	Number of Compliance Assessments	Reliability Requirements Found in Full Compliance	Reliability Requirements Found in Non-Compliance
NYISO	23 <sup>3</sup>	50	0
Market Participants	5	5	0
<b>Totals</b>	<b>28</b>	<b>55</b>	<b>0</b>

In addition to compliance certification submissions, compliance with seven assessments required the NYISO to submit reports to RCMS, not including 12 monthly operations reports. The Appendix is a summary of the 2021 Reliability Compliance Program that depicts the Requirements that were assessed, related compliance milestone dates, and compliance findings.

### New York Control Area Resource Adequacy Assessments

A reliability rule change was implemented in 2020 in which NYSRC Reliability Rule A.3, which previously required the NYISO to annually prepare 3-year resource adequacy assessments, was replaced by two new requirements: one requiring the NYISO to prepare an annual “Next Capability Year” resource adequacy assessment, and a second rule requiring NYISO submission of a ten-year resource adequacy assessment every two years.

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<sup>3</sup> Twelve NYISO monthly real time operating report submissions in 2021 are counted as a single assessment.

Accordingly, a ten-year 2021-30 resource adequacy assessment was conducted by the NYISO in 2020 and submitted to the NYSRC in 2021 in accordance with the NYSRC Reliability Compliance Program requirements. This assessment included information from the NYISO's 2020 Resource Needs Assessment (RNA) for study years 2024 through 2030 (year 4 through year 10) and from the NYISO's 2020 Short-Term Assessment of Reliability (STAR) Quarter 3 for the 2021 through 2025 period (with a focus on years 1 through 3). Highlights from the RNA included an analysis that showed that the "Peaker Rule"<sup>4</sup> will result in annual LOLE increases starting in 2027, requiring the addition of compensatory resources. A separate "70 X 30 Scenario" examined the reliability impacts of the Climate Leadership and Community Protection Act's mandated renewable energy implementation plan for the year 2030. One of the more important findings of this analysis showed the need for a significant amount of dispatchable generating capacity in order to meet the NYSRC's IRM requirements.

To demonstrate compliance with the "Next Capability Year" resource adequacy assessment requirement, the NYISO prepared the report, *Annual Assessment of Resource Adequacy for the Capability Year 2021-22*. This assessment concluded that for existing and planned NYCA resources and a baseline forecast of peak load, NYCA IRM requirements would be met during the 2021-22 capability year period, even under an extreme high load case.

## **New York Control Area Transmission Planning Assessments**

NYSRC Reliability Rules require that the NYISO conduct yearly NYCA area transmission reviews (ATRs). The timing of the NYISO's transmission review submissions to the NYSRC are coordinated with that of similar transmission review submissions required by NPCC. In addition to NPCC reporting requirements, the NYSRC requires the NYISO to provide supplemental information as described in the "NYSRC Procedure for NYCA Transmission Reviews."

Two transmission reviews were submitted to the NYSRC in 2021, a 2020 ATR and a 2021 ATR. The 2020 ATR, which was a comprehensive transmission review, assessed the year 2025. The 2020 ATR concluded the planned NYCA bulk power transmission facilities, as planned through year 2025, conform to the applicable NPCC and NYSRC Reliability Rules. The 2020 ATR also included extreme weather event and loss of gas supply assessments. These two assessments are particularly of interest because of NYSRC's 2022 goal to develop new reliability rules covering extreme system conditions.

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<sup>4</sup> In 2019, the New York State Department of Environmental Conservation adopted a regulation to limit nitrogen oxides (NOx) emissions from simple-cycle combustion turbines. This regulation is known as the "Peaker Rule."

The second transmission review submitted in 2021 was a 2021 ATR. This assessment concluded the NYCA bulk power system meets NPCC and NYSRC reliability criteria through 2026.

## **NYISO Compliance Documentation Submissions**

The success of the NYSRC Compliance Program depends on timely and complete submissions of compliance documentation prepared by the NYISO. In 2021 all required compliance certifications and related compliance documents were submitted to RCMS by the NYISO in accordance with compliance documentation due dates, and all submissions were found to be complete.

## **NERC and NPCC 2021 Reliability Compliance Programs**

In addition to complying with the NYSRC Rules, the NYISO must also comply with all applicable NERC standards and NPCC criteria. Compliance with NERC standards is mandatory. RCMS has oversight responsibility concerning the NYISO's compliance with these standards and criteria. NPCC has direct responsibility and authority to implement a Compliance Monitoring and Enforcement Program (CMEP) for NERC and regional standards, as well as a Compliance Criteria Enforcement Program (CCEP) for NPCC-specific reliability criteria. During 2021, as a part of the CCEP, NPCC reviewed and found the NYISO in full compliance with two NPCC directories. In addition, in December 2021, NPCC performed an on-site comprehensive Audit of the NYISO's compliance with 43 Requirements contained in 16 NERC Operations & CIP Standards

## **Conclusions**

The following conclusions were reached by RCMS with regard to the NYSRC 2021 Reliability Compliance Program:

1. The NYISO staff continued to provide valued assistance during the NYSRC reliability compliance review process.
2. The NYISO and market participants were in full compliance with all 55 NYSRC Requirements that were assessed by RCMS in the 2021 NYSRC Reliability Compliance Program. In addition, NPCC found the NYISO in full compliance with all NPCC criteria and NERC standards that were assessed during 2021.

3. All required NYISO compliance documentation associated with the 2021 Reliability Compliance Program was submitted to RCMS during the scheduled time period and found to be complete.

Appendix

**NEW YORK STATE RELIABILITY COUNCIL  
2021 RELIABILITY COMPLIANCE PROGRAM**

REQUIREMENT(S)	REQUIREMENT DESCRIPTION	MEASURE	COMPLIANCE DOCUMENTATION DUE 1	DATE RECEIVED	DATE OF RCMS REVIEW	NYISO COMPLIANCE Level 2
<b>Resource Adequacy</b>						
A.2:R1	2021 Locational Capacity Requirements	M1	3/25/21	3/25/21	4/1/21	FC
A.2:R2	LSE ICAP obligations	M2*	11/23/21	11/23/21	11/30/21	FC
A.3:R1	2021-22 resource adequacy assessment	M1	5/27/21	5/27/21	6/3/21	FC
A.3:R2	Long term resource adequacy assessment	M2	1/28/21	1/27/21	2/4/21	FC
<b>Transmission Planning</b>						
B.1: R1 to R4	Transmission planning criteria	M1	2/25/21	2/25/21	3/4/21	FC
B.2: R1	2020 NYCA transmission review	M1	2/25/21	2/25/21	3/4/21	FC
B.2: R1	2021 NYCA transmission review	M1	2/3/22	8/26/21	9/2/21	FC
B.3: R1, R2	List of NYS BPS Facilities	M1	2/25/21	2/25/21	3/4/21	FC
B.4: R1	Transmission interconnection special studies	M1	5/27/21	5/27/21	6/3/21	FC
<b>Transmission Operation</b>						
C.1: R1, R2	Establishing operating transfer capabilities	M1	3/25/21	3/25/21	4/1/21	FC
C.2: R1, R2	Post contingency operation	M1	3/25/21	3/25/21	4/1/21	FC
C.3: R1 to R.5	Transmission outage coordination	M1	5/27/21	5/27/21	6/3/21	FC
C.3: R6	TO procedures for transmission outage coordination	M2	5/27/21	5/27/21	6/3/21	FC
C.4: R1 to R3	Extreme weather and severe solar magnetic disturbance operations	M1	6/24/21	6/24/21	7/1/21	FC
C.5: R1, R3	2021 fault current assessment	M1	6/24/21	6/23/21	7/21/21	FC
C.5: R2	Equipment Owner fault current assessment actions	M2*	6/24/21	6/23/21	6/23/21	FC
C.6: R1, R2	Applications of the NYSRC Rules	M1	8/26/21	8/26/21	9/2/21	FC
C.7: R1	Exceptions to the NYSRC Rules	M1	8/26/21	8/26/21	9/2/21	FC
C.8: R1	Real-time operations monthly reports	M1	Monthly			FC 3
<b>Emergency Operations</b>						
D.1: R1 to R8	Mitigation of Major Emergencies	M1	8/26/21	8/26/21	9/2/21	FC
D.1: R10	Annual statewide voltage reduction tests	M3	9/30/21	9/30/21	10/7/21	FC

## Appendix

Operating Reserves						
<b>E.1: R1-7</b>	Minimum operating reserve requirements	M1	9/30/21	9/30/21	10/7/21	FC
System Restoration						
<b>F.1: R3</b>	Black Start Provider requirements	M3*	9/30/21	9/30/21	10/7/21	FC
Local Area Operation						
<b>G.2: R6</b>	GO dual fuel capability testing of combined cycle units	M5*	10/28/21	10/28/21	11/4/21	FC
Modeling and Data						
<b>I.2: R3</b>	Generation outage statistics report	M3	10/28/21	10/28/21	11/4/21	FC
<b>I.2: R4.4</b>	SCR performance report	M4	10/28/21	10/28/21	11/4/21	FC
<b>I.3: R2</b>	Annual actual and forecast load data	M2	11/23/21	11/23/21	11/30/21	FC
<b>I.4: R3</b>	MP transmission data reporting	M3*	11/23/21	11/23/21	11/30/21	FC

\*Applicable to Market Participants; NYISO compliance certification is required (see Appendix 1).

### Footnotes:

1. Compliance documentation due dates are generally scheduled seven days prior to RCMS meetings. Compliance documentation requirements are shown in Appendix 1.

2. NYISO Compliance Levels

FC – Full Compliance

NC1 – Non-Compliance Level 1

NC2 – Non-Compliance Level 2

NC3 – Non-Compliance Level 3

NC4 – Non-Compliance Level 4

3. All 2021 monthly operations reports were found in Full Compliance.



**Appendix**

**2021 “As Required” NYISO Compliance Review Reports**

<b>Rule Requirement</b>	<b>Major Emergency Report Summary</b>	<b>Date NYISO Report Was Received</b>	<b>RCMS Review Date</b>	<b>RCMS Comments</b>	<b>NYISO Compliance Level</b>
<p><b>D.1:R9</b>                      “The NYISO shall report to the NYSRC on every instance of a Major Emergency.”</p>	<p>On 2/10/21, a Major Emergency was declared when the power flow on Central East exceeded its voltage transfer limit by 5%. This was caused by the trip of the New Scotland 345KV bus. To correct this, the NYISO shift supervisor started and re-dispatched generation, placed capacitors in service, and moved PARs.</p>	<p>2/10/21</p>	<p>3/4/21</p>	<p>None</p>	<p>FC</p>