

Request to Develop or Modify Reliability Rules and Requirements (NYSRC Policy No. 1-11)

Submit request to herb@poweradvisorsllc.com via the NYSRC site www.nysrc.org

Item	Information
1. PRR No. & Title of Reliability Rule or Requirement change	PRR 145 Resource Adequacy Assessments
2. Rule Change Requester Information	
Name	RRS
Organization	
3. New rule or revision to existing rule?	Revision to Reliability Rule A.3
4. Need for rule change, including advantages and disadvantages	<p>The NYSRC is concerned that possible future replacement of existing NYCA conventional generation with significant amounts of low availability intermittent resource capacity will increase the uncertainty of long-term resource adequacy and system reliability. It is therefore prudent that Reliability Rule A.3 include a requirement for a long-term resource adequacy assessment as well as for the short-term.</p> <p>Therefore, this PRR replaces the current Rule A.3, which now requires a 3-year resource adequacy assessment, with one that requires: (1) an annual “Next Capability Year” Resource Adequacy Assessment, (2) a semi-annual Long-Term Resource Adequacy Assessment, and (3) a report providing major updates to the previous Long-Term Resource Adequacy Assessment. assessment covering each of the next ten years, and (3) a report in the intervening year between Long-Term Resource Adequacy Assessments to inform the NYSRC of any significant updates.</p>
5. Related NYSRC rules	A.1
6. Section A – Reliability Rule Elements	
1. Reliability Rule	The adequacy of planned NYCA resources shall be assessed to demonstrate conformance with NYSRC resource adequacy requirements. (No change)
2. Associated NERC Standards & NPCC Standards and Criteria	NPCC: Directory 1 NERC: None
3. Applicability	NYISO
7. Section B – Requirements	

<p>Requirements</p>	<p>R1.</p> <p>The NYISO shall conduct a NYCA Resource Adequacy Assessment for the next Capability Period for demonstrating that proposed NYCA resources meet NYCA statewide IRM and locational capacity requirements in accordance with criteria in Reliability Rules A.1: R1.1 and A.2: R1. This assessment shall be documented in a report covering, at a minimum, the evaluations and information below:</p> <p>R1.1.</p> <p>The Resource Adequacy assessment shall evaluate a base case assuming proposed resources and the most likely load forecast, as well as alternate scenarios approved by RCMS.</p> <p>R1.2.</p> <p>The Resource Adequacy Assessment shall address any potential base case resource adequacy needs and possible corrective actions.</p> <p>R1.3.</p> <p>The Resource Adequacy assessment report shall include key findings, assumptions, and other major factors considered in the assessment.</p> <p>R2.</p> <p>The NYISO shall prepare a NYCA Long-Term Resource Adequacy Assessment covering each of the next ten years. This assessment shall be supported by current or past NYISO studies, including the latest NYISO Reliability Needs Assessment (RNA) or other comparable NYISO resource adequacy reviews. A summary report covering this assessment shall be provided to the NYSRC in accordance with the following requirements:</p> <p>R2.1.</p> <p>The documentation for the NYCA Long-Term Resource Adequacy Assessment shall be consistent with the <i>NYSRC Guidelines for NYCA Long-Term Resource Adequacy Assessments</i> in the form of a summary report. The NYSRC may request the NYISO to provide, as needed, supplemental information to be included in the summary report.</p> <p>R2.2.</p> <p>The NYISO shall submit the NYCA Long-Term Resource Adequacy Assessment every two years in accordance with NYSRC schedules.</p> <p>R2.3.</p> <p>The NYCA Long-Term Resource Adequacy Assessment shall determine whether the NYCA is in conformance with the NYSRC resource adequacy criterion in Reliability Rule A.1: R1.1, such that the loss of load expectation (LOLE) of disconnecting firm load due to resource deficiencies shall be, on average, no more than 0.1 days per year for every year during the 10-year study</p>
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	<p>period; and if not in compliance with the LOLE criterion, to identify compensatory capacity that would be needed to meet this criterion.</p> <p>R3.</p> <p>The NYISO shall submit a report in the Intervening Year between NYCA Long-Term Resource Adequacy Assessments to inform the NYSRC of any significant updates, including solutions to reliability needs identified in the Long-Term Resource Adequacy Assessment.</p>
8. Section C – Compliance Elements	
1. Measures	<p><u>M1 (for R1):</u> The NYISO submitted an NYCA Next Capability Year Resource Adequacy Assessment report covering the next Capability Period to the NYSRC in accordance with R1 requirements.</p> <p><u>M2 (for R2):</u> The NYISO submitted a NYCA Long-Term Resource Adequacy Assessment report covering the next ten-year period to NYSRC in accordance with R2 requirements and NYSRC schedules.</p> <p><u>M3 (for R3):</u> The NYISO submitted an Intervening Year report providing significant Long-Term Resource Adequacy updates in accordance with R3 requirements.</p>
2. Levels of Non-Compliance	<p><u>For M1:</u> Level 1: Not applicable. Level 2: A Next Capability Period Resource Adequacy Assessment report was submitted, but it was incomplete with regard to R1 requirements. Level 3: Not applicable. Level 4: A Next Year Capability Period Resource Adequacy Assessment report was not submitted.</p> <p><u>For M2:</u> Level 1: Not applicable. Level 2: A Long-Term Resource Adequacy Assessment report was submitted, but it was incomplete or not consistent with R2 requirements, including those reporting requirements included in the <i>NYSRC Guidelines for Resource Adequacy Assessments</i>. Level 3: Not applicable. Level 4: A Long-Term Resource Adequacy Assessment was not submitted.</p> <p><u>For M3:</u> Level 1: Not applicable. Level 2: Not applicable. Level 3: Not applicable. Level 4: An Intervening Year Resource Adequacy report was not submitted.</p>

3. Compliance Monitoring Process (See Policy 4):	
3.1 Compliance Monitoring Responsibility	M1, M2 and M3: RCMS
3.2 Reporting Frequency	M1: Annually. M2: Every other year in accordance with RCMS schedules. M3: During the intervening year between R2 report submissions.
3.3 Compliance Reporting Requirements	M1: Next Capability Period Resource Adequacy Assessment report M2: Long-Term Resource Adequacy Assessment Report M3: Intervening Year Resource Adequacy Assessment Update report
9. Implementation Plan	R1: A Short-Term Resource Adequacy Review covering the 2020 Capability Period shall be submitted to the NYSRC during the March – April 2020 timeframe in accordance with RCMS schedules. R2: A Long-Term Resource Adequacy Assessment covering the years 2021 through 2030 shall be submitted to the NYSRC within 60 days after the publication date of the NYISO’s 2020 RNA report. R3: In 2021 a report covering any significant updates to the 2020 Long-Term Resource Adequacy Assessment shall be submitted to the NYSRC during 2021. The schedule for preparing the report will consider submitting the report after publication of the NYISO’s 2021 Comprehensive Reliability Plan report.
10. Comments	1.The <i>NYSRC Guidelines for NYCA Long-Term Resource Adequacy Assessments</i> is attached to this PRR. 2.Following RCMS compliance review of the Long-Term Resource Adequacy Assessment report required by R2, presentations will be made to the Executive Committee and ICS, including any recommended NYSRC actions.
11. Date Rule Adopted	
12. PRR Revision Dates	8/21/19, 10/30/19, 11/13/19

NYSRC Guidelines for Reporting NYCA Long-Term Resource Adequacy Assessments

The purpose of these guidelines is to specify the minimum documentation required in a summary report prepared by the NYISO for NYCA Long-Term Resource Adequacy Assessments for satisfying compliance with NYSRC Reliability Rule A.3: R2. The purpose of these Resource Adequacy Assessments is to determine whether currently proposed NYCA resources over the next 10-year period will meet NYSRC's "one-day-in-10 years" LOLE resource adequacy criterion. Resource Adequacy Assessment reports shall include the study assumptions, assessment procedures, and findings described below. The NYISO may include in the report other related information it seems appropriate that is not covered by these guidelines.

1. Assumptions

- 1.1 Load forecast for the assessment period, including base case and high load forecasts. The basis for the high load forecast should be provided.
- 1.2 Proposed resources and retirements for the assessment period.
- 1.3 Other scenarios assessed by the NYISO as part of their Resource Adequacy Assessment, or other recent applicable studies.

2. NYISO procedures used to perform Long-Term Resource Adequacy Assessments

3. Findings

- 3.1 Provide the LOLE for each year for the base case, high load forecast, and various other scenarios.
- 3.2 Provide compensatory MW for years not complying with the LOLE criterion.
- 3.3 State the process the NYISO will utilize to identify solutions for satisfying projected capacity needs.
- 3.4 Identify potential resource adequacy risks and mitigation options.
- 3.5 Provide NYISO conclusions regarding issues and concerns affecting resource adequacy over the 10-year assessment period.