

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

Submit request to [herb@poweradvisorsllc.com](mailto:herb@poweradvisorsllc.com) via the NYSRC site [www.nysrc.org](http://www.nysrc.org)

Item	Information
<b>1. PRR No. &amp; Title of Reliability Rule or Requirement change</b>	PRR 145 Resource Adequacy Assessments
<b>2. Rule Change Requester Information</b>	
Name	RRS
Organization	
<b>3. New rule or revision to existing rule?</b>	Revision to Reliability Rule A.3
<b>4. Need for rule change, including advantages and disadvantages</b>	<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>
<b>5. Related NYSRC rules</b>	A.1
<b>6. Section A – Reliability Rule Elements</b>	
1. Reliability Rule	<b>The adequacy of planned NYCA resources shall be assessed to demonstrate conformance with NYSRC resource adequacy requirements.</b> (No change)
2. Associated NERC Standards & NPCC Standards and Criteria	NPCC: Directory 1 NERC: None
3. Applicability	NYISO
<b>7. Section B – Requirements</b>	

Requirements	<p><b>R1.</b></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><b>R1.1.</b></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><b>R1.2.</b></p> <p>The Resource Adequacy Assessment shall address any potential base case resource adequacy needs and possible corrective actions.</p> <p><b>R1.3.</b></p> <p>The Resource Adequacy assessment report shall include key findings, assumptions, and other major factors considered in the assessment.</p> <p><b>R2.</b></p> <p><del>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:</del></p> <p><del><b>R2.</b> The NYISO shall prepare biennial Resource Adequacy Reviews covering the next 9-year period following the R1 assessment that summarize the base case findings for LOLE from the latest NYISO final Reliability Needs Assessment (RNA) or other comparable NYISO-approved resource adequacy review.</del></p> <p><del><b>R2.1-</b></del></p> <p><del>The documentation for the NYCA Long-Term Resource Adequacy Assessment shall be consistent with the NYSRC Guidelines for NYCA Long-Term Resource Adequacy Assessments 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.</del></p>
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11-21-19

RRS –

1. we need to hash out the wording regarding the overall time period. If R1 is year 1 of the 10 year look-out, then R2 should only be for nine years. We don't see the need to look forward 11 yrs. with this.
2. We do not believe the agreed upon report needed to be supported by studies other than the RNA. The RRS proposal might be construed that other studies besides the RNA are required. We prefer the NYISO's proposed wording since it more clearly identifies the RNA as the salient document, while allowing flexibility for unforeseen circumstances.

**Commented [DKS2R1]:** Keep our wording. I think the main point of our wording is that we will just be summarizing the RNA (or some other comparable report) for our report to the NYSRC. Al's wording could get misconstrued that we will develop a standalone study for this requirement (which could be supported by other NYISO studies). This is not what we intend.

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	<p><u>R2.1 This Review shall make due allowances for demand uncertainty, scheduled outages and deratings, forced outages and deratings, assistance over interconnections with neighboring control areas, NYS Transmission System emergency transfer capability, and capacity and/or load relief from available operating procedures.</u></p> <p><b>R2.2.</b></p> <p><u>R2.2 If the findings show that the LOLE is above .1 days per year criterion (noted in A.1 R1.1), the assessment will include the amount of compensatory MW that would be needed to bring the LOLE to 0.1 days per year.</u></p> <p><del>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 period, and if not in compliance with the LOLE criterion, to identify compensatory capacity that would be needed to meet this criterion.</del></p> <p><u>R2.3 The NYISO shall submit the biennial Resource Adequacy Review every other year in accordance with NYSRC schedules.</u></p> <p><b>R3.</b></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 <u>to assumptions and, if available, findings from the latest final Comprehensive Reliability Plan or other final NYISO report which may include solutions to reliability needs identified in the Long-Term Resource Adequacy Assessment.</u></p>
<p><b>8. Section C – Compliance Elements</b></p>	
<p>1. Measures</p>	<p><b>M1 (for R1):</b> 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><b>M2 (for R2):</b></p>

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11-21-19

RRS – we recall there was a desire to re-order the sub-requirements so that 2.1 would state the criteria, 2.2 would address corrective actions to be included in the report (compensatory MW), and 2.3 would be to submit the report. We believe this is a logical sequence.

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11-21-2019

RRS – A.1 R1.1 still references the IRM, which is not applicable in A.3 R2. We believe it is appropriate to spell out the LOLE as we do in the NYISO proposal.

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	<p>The NYISO submitted a NYCA Long-Term Resource Adequacy Assessment report covering the next <b>nine</b>-year period to NYSRC in accordance with R2 requirements and NYSRC schedules.</p> <p><b>M3 (for R3):</b> 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><b>For M1:</b> 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><b>For M2:</b> 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, <del>including those reporting requirements included in the NYSRC Guidelines for Resource Adequacy Assessments.</del> Level 3: Not applicable. Level 4: A Long-Term Resource Adequacy Assessment was not submitted.</p> <p><b>For M3:</b> 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	<b>M1, M2 and M3:</b> RCMS
3.2 Reporting Frequency	<b>M1:</b> Annually. <b>M2:</b> Every other year in accordance with RCMS schedules. <b>M3:</b> During the intervening year between R2 report submissions.
3.3 Compliance Reporting Requirements	<b>M1:</b> Next Capability Period Resource Adequacy Assessment report <b>M2:</b> Long-Term Resource Adequacy Assessment Report <b>M3:</b> Intervening Year Resource Adequacy Assessment Update report
<b>9. Implementation Plan</b>	<p><b>R1:</b> 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.</p> <p><b>R2:</b> 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.</p> <p><b>R3:</b> 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.</p>

<b>10. Comments</b>	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.
<b>11. Date Rule Adopted</b>	
<b>12. PRR Revision Dates</b>	8/21/19, 10/30/19, 11/13/19

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**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 zonal resource adequacy risks and mitigation options.
- 3.5 Provide NYISO conclusions regarding issues and concerns affecting resource adequacy over the 10-year assessment period.

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