# Request to Develop or Modify Reliability Rules and Requirements (NYSRC Policy No. 1-11) Submit request to <u>herb@poweradvisorsllc.com</u> via the NYSRC site <u>www.nysrc.org</u>

Item	Information
1. PRR No. & Title of Reliability	PRR 145 Resource Adequacy Assessments
Rule or Requirement change	
2. Rule Change Requester Information	
Name	RRS
	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	The NYSRC is concerned that the future addition of 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.
	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 biennial Long-Term Resource Adequacy Assessment, and (3) a report providing major updates to the previous Long-Term Resource Adequacy Assessment in order to inform the NYSRC of any significant updates.
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	NPCC: Directory 1 NERC: None
Standards and Criteria 3. Applicability	NYISO
7. Section B – Requirements	
Requirements	R1. An NYCA resource adequacy assessment shall be conducted annually for the next summer period and two years beyond, fo demonstrating that proposed NYCA resources meet NYC/ statewide IRM and New York City and Long Island locationa capacity requirements as determined by NYSRC and NYISO studie conducted in accordance with A.1 and A.2. The assessment shal be documented in a resource adequacy report, covering at a minimum, the evaluations and information below:

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	The NYISO shall conduct a NYCA Resource Adequacy Assessment for th	10
	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	g,
	at a minimum, the evaluations and information below:	
	· · · · · · · · · · · · · · · · · · ·	
	<u>R1.1.</u>	
	The Resource Adequacy assessment shall evaluate a base cas	e
		<u> </u>
	assuming proposed resources and the most likely load	
	forecast, as well as alternate scenarios approved by RCMS.	
	<u>R1.2.</u>	
	The Resource Adequacy Assessment shall address any	
	potential base case resource adequacy needs and possible	
	corrective actions.	
	R1.3.	
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	The Resource Adequacy assessment report shall include key	
	findings, assumptions, and other major factors considered in	
	the assessment.	
	the assessment.	
<u>R</u>		
	— The NYISO shall prepare a biennial NYCA Long-Term Resource	
	Adequacy Assessment covering a ten-year look-ahead period. This	
	assessment shall include findings from the latest NYISO Reliability	
	Needs Assessment (RNA) or other comparable NYISO-approved	
	resource adequacy review. A summary report covering this assessmen	+
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	shall be provided to the NYSRC in accordance with the following	
	requirements:	
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_	<u>R2.1.</u>	
	The documentation for the NYCA Long-Term Resource	
	Adequacy Assessment to be included in the summary report	
	shall be consistent with the NYSRC Guidelines for NYCA Long-	
	Term Resource Adequacy Assessments. The NYSRC may	
	request the NYISO to provide, as needed, supplemental	
	information to be included in the summary report.	
	mormation to be included in the summary report.	
	R2.2.	
	If the NYCA Long-Term Resource Adequacy Assessment	
	analysis shows that NYCA system LOLE is not within the NYSR	c
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	Resource Adequacy Criterion in Reliability Rule A.1: R1.1 for any year during the 10-year study period, the NYISO shall identify the amount of compensatory MW capacity that would be needed to bring the NYCA LOLE to 0.1 days per year.
	R2.3.
	The NYISO shall submit the NYCA Long-Term Resource
	Adequacy Assessment every two years in accordance with
	NYSRC schedules
	<u>R3.</u>
	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 to assumptions and, if available, findings from the
	latest final NYISO Comprehensive Reliability Plan or other final NYISO
	report which may include solutions to reliability needs identified in the
	Long-Term Resource Adequacy Assessment.
8. Section C – Compliance	Replace the compliance elements in existing Reliability Rule A.3 with the
Elements	Measures, Levels of Non-Compliance, and Compliance Monitoring Process as
	shown below:
1. Measures	M1 (for R1):
	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.
	<u>M2 (for R2)</u> :
	The NYISO submitted a NYCA Long-Term Resource Adequacy Assessment report,
	covering the ten-year period covered by the latest RNA, to NYSRC in accordance
	with R2 requirements and NYSRC schedules.
	M3 (for R3):
	The NYISO submitted an Intervening Year report providing significant Long-Term
	Resource Adequacy updates in accordance with R3 requirements.
2. Levels of Non-Compliance	For M1:
	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.
	not submitted.
	For M2:
	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 NYSRC Guidelines for Resource Adequacy
	Assessments.
	Level 3: Not applicable.
	Level 4: A Long-Term Resource Adequacy Assessment was not submitted.
	For M3:
	Level 1: Not applicable.
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Level 2: Not applicable.         Level 3: Not applicable.         Level 4: An Intervening Year Resource Adequacy report was not submitted.         3. Compliance Monitoring Process (See Policy 4):         3.1 Compliance Monitoring Responsibility         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         M3: Intervening Year Resource Adequacy Assessment Update report         M3: Intervening Year Resource Adequacy Review covering the 2020 Capability Period shall comply with R1, R2, and R3 revisions, as follows:         R1: A Short-Term Resource Adequacy Assessment 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.
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3. Compliance Monitoring Process (See Policy 4):       M1, M2 and M3: RCMS         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. M1: Next Capability Period Resource Adequacy Assessment report M2: Long-Term Resource Adequacy Assessment report M3: Intervening Year Resource Adequacy Assessment Update report M3: Intervening Year Resource Adequacy Assessment Update report         9. Implementation Plan       The Requirement and Compliance Element revisions in this PRR shall be adopted immediately following Executive Committee approval of PRR 147. The NYISO shall comply with R1, R2, and R3 revisions, as follows:         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
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R3: In 2021 a report covering any significant updates to the 2020 Long-Term
Resource Adequacy Assessment shall be submitted to the NYSRC. The schedule
for preparing the report will consider submitting the report after publication of
the NYISO's 2021 Comprehensive Reliability Plan report.
<b>10. Comments</b> 1. The NYSRC Guidelines for NYCA Long-Term Resource Adequacy Assessments 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
<b>12. PRR Revision Dates</b> 8/21/19, 10/30/19, 11/13/19, 12/4/19, 12/17/19, 12/26/19

## Draft

## 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.