Request to Develop or Modify Reliability Rules and Requirements (NYSRC Policy No. 1-11)
Submit request to herb@poweradvisorsllc.comvia the NYSRC site www.nysrc.org

Item	Information
1. PRR No. & Title of Reliability Rule or Requirement change	**PRR 150: Resource Adequacy Requirements for Mitigating the Threats of Extreme Weather**
2. Rule Change Requester Information	
Name	RRS
Organization	
3. New rule or revision to existing rule?	New Rule
4. Need for rule change, including advantages and disadvantages	The reliability of the NYS Power System is increasingly threatened by climate-driven extreme weather events. While extreme weather has always impacted the electric grid, the severity and frequency of extreme weather events is increasing. Accordingly, the NYSRC has concluded that the NYS Electric System must be planned and operated to ensure the system is resilient to the threats of extreme weather. The proposed reliability requirements for mitigating the threats of extreme weather in this PRR implements recommendations in the NYSRC white paper, *Development of NYSRC Rules for Mitigating Extreme Weather*, approved by the NYSRC Executive Committee on July 8, 2022. While the proposed requirements in this PRR are limited to operating plans and resource adequacy assessment requirements for mitigating the impacts of extreme weather, future PRRs will cover extreme weather transmission assessment requirements using new NYSRC extreme weather resource and transmission planning criteria which are expected to be developed within the next 2-3 years. The proposed Requirements in this PRR are consistent with goals of the June 2022 FERC NOPR, aimed at boosting grid reliability against extreme weather conditions.
5. Related NYSRC rules	None
6. Section A – Reliability Rule Elements	
1. Reliability Rule	**The NYISO shall plan and operate the NYS Bulk Power System utilizing procedures and actions to improve system resilience for mitigating the reliability impacts of extreme weather events.**
2. Associated NERC & NPCC Standards and Criteria	None
3. Applicability	NYISO
7. Section B – Requirements	
Requirements	**R1.** <u>NYISO Extreme Weather Resilience Operating Plan</u> The NYISO shall develop and implement an *Extreme Weather Resilience Operating Plan* for preparing, withstanding, and recovering rapidly from

disruptions caused by Extreme Weather Events in order to preserve the security and reliability of the NYS Bulk Power System. This plan shall include, but not limited to, the following measures and procedures:

R1.1. Procedures for collecting historic weather data and models for predicting when and where extreme weather may impact the electric system.

~~**R1.2** Load reduction measures to minimize outages and aid restoration during extreme weather events.~~

R1.~~3~~2. Operating practices for preparing for impeding severe weather ~~and reducing recovery times.~~

R1.~~4~~3. System restoration management procedures for specifically addressing extreme weather events~~, including minimization of restoration times~~.

R1.~~5~~4. Extreme weather training requirements.

R1.~~6~~5. Provisions for notifying market participants to prepare for forecasted extreme weather conditions.

R2. Operation During Impending Severe Weather (Existing Rule **C.4**; R1)

During periods when severe weather (such as, but not limited to, tornadoes or hurricanes) exists or is forecast to occur, it may be necessary to take steps in addition to those procedures normally followed, to maintain system *security*. The *NYISO* shall enter this mode of operation for those portions of the *NYS Bulk Power System* affected by actual or impending severe weather when requested to do so by the affected *Transmission Owners*, or at any other times when it deems necessary to preserve the *security* and *reliability* of the *NYS Bulk Power System.*

R2.1. When a situation exists in which the effects of impending severe weather could severely jeopardize the *security* of the *NYS Bulk Power System*, corrective actions, which would be necessary to protect for one transmission *contingency* greater than the normal criteria within the affected area, shall be implemented.

R2.2. *Generation* may be ordered to full operating *capacity* and transmission facilities out of service for maintenance may be ordered restored to service

R3. NYCA Long-Term Extreme Weather Resource Adequacy Assessments

The NYISO shall conduct annual NYCA Long-Term Extreme Weather Resource Adequacy Assessments covering the tenth year of a ten-year look-ahead period, as follows:

	R3.1. The required assessments may be part of the NYISO's RNA Process, Comprehensive Planning Process, or a separate assessment. **R3.2.** The extreme weather events scenarios in this assessment shall include heat waves, wind lulls, coastal storms (including hurricanes), severe Upstate NY wind storms, and any other type of extreme weather event that the NYISO may wish included. **R3.3.** A report covering the assumptions and results of this assessment shall be provided to the NYSRC.
8. Section C – Compliance Elements	(TO COME LATER)
1. Measures	
2. Levels of Non-Compliance	
3. Compliance Monitoring Process (See Policy 4):	
3.1 Compliance Monitoring Responsibility	
3.2 Reporting Frequency	
3.3 Compliance Reporting Requirements	
9. Implementation Plan	(TO COME LATER)
10. Comments	Requirement R3 will be modified after an extreme weather resource adequacy criterion is established.
11. Date Rule Adopted	
12. PRR Revision Dates	9/16/22, 10/24/22