

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 151: Establish minimum interconnection standards for Large Facilities Inverter Based Resources (IBR) based on IEEE Standard 2800-2022
2. Rule Change Requester Information	
Name	RRS
Organization	NYSRC
3. New rule or revision to existing rule?	New rule. B.5: Establishing NYCA Interconnection Standards for Large Facility Inverter Based Resources
4. Need for rule change, including advantages and disadvantages	<p>The NYISO Interconnection Queue as of 1/5/23 has greater than 50,000 MWs of Large Facility (>20 MW) Inverter Based Resources. The NYISO’s earliest 2023 Class Year Start Date is February 13, 2023 and the 2023 Class Year will include those IBRs that have met the NYISO’s inclusion rules.</p> <p>NYSRC does not presently have IBR interconnection criteria in its Reliability Rules. PRR 151 is proposed for approval on an expedited basis in order to be applicable to all interconnection studies involving IBRs including those in the 2023 Class Year. This proposal is based upon: (1) recent disturbances in Texas and California where IBRs failed to perform reliably; (2) the cumulative magnitude of IBRs in NYCA per New York State’s CLCPA mandates; and (3) NERC’s recommendation for Authorities Governing Interconnection Requirements (AGIR) to immediately adopt IEEE Standard 2800-2022. PRR 151 is based upon a critical subset of IEEE Standard 2800-2022 requirements as amended for NYCA. Further revisions to encompass all pertinent IEEE Standard 2800-2022 requirements will be included in a subsequent PRR.</p> <p>The advantage to immediate adoption of PRR 151 is that it establishes IBR interconnection criteria critical to NYCA reliability as NYCA transitions to renewable resources per CLCPA mandates. There are no disadvantages.</p>
5. Related NYSRC rules	Reliability Rule B.4
6. Section A – Reliability Rule Elements	
1. Reliability Rule	NYISO Large Facility Interconnection Studies shall include models, data bases, analytical methods and criteria applicable to Inverter Based Resources (IBR).
2. Associated NERC Standards & NPCC Standards and Criteria	NPCC: Directory 1 NERC: All Standards under review for IBR application IEEE Standard 2800-2022: “IEEE Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems”
3. Applicability	NYISO Large Facility IBR Interconnection Studies

<p>7. Section B Requirements</p>	<p>R1. The NYISO shall prepare and maintain procedures for Large Facility IBR interconnections based on IEEE Standard 2800-2022: Section 1 “Overview”; Section 2 “Normative references”; Section 3 “Definitions, acronyms and abbreviations”; Section 4 “General interconnection technical specifications and performance requirements”, as amended for NYCA application in Attachment A.</p> <p>R2. All Large Facility IBR interconnection studies shall be based on IEEE Standard 2800-2022: Section 5 “Reactive power-voltage control requirements within the continuous operation region”; Section 6 “Active power-frequency response requirements”; Section 7 “Response to TS abnormal conditions”; Section 9 “Protection”, as amended for NYCA application in Attachment A.</p> <p>R3. The NYISO shall prepare and maintain procedures for all Large Facility IBR interconnections based on IEEE Standard 2800-2022: Section 10 “Modeling data”; Section 11 “Measurement data for performance monitoring and validation”; Section 12 “Test and verification requirements”, as amended for NYCA application in Attachment A.</p> <p>R4. The NYISO shall annually submit a technical report documenting the assumptions, models and methodology of Large Facility IBR interconnection studies in accordance with R1 through R3.</p>
<p>8. Section C – Compliance Elements</p>	
<p>1. Measures</p>	<p>M1. The NYISO shall maintain procedures for implementing the IBR interconnection requirements in R1 to through R3.</p>
<p>2. Levels of Non-Compliance</p>	<p>Level 1: Not applicable</p> <p>Level 2: Not applicable</p> <p>Level 3: Not applicable.</p> <p>Level 4: A Large Facility IBR report was not submitted in accordance with R4.</p>
<p>3. Compliance Monitoring Process (See Policy 4):</p>	<p>No change.</p>
<p>3.1 Compliance Monitoring Responsibility</p>	<p>No change.</p>
<p>3.2 Reporting Frequency</p>	<p>No change</p>
<p>3.3 Compliance Reporting Requirements</p>	<p>No change</p>
<p>9. Implementation Plan</p>	<p>This rule change will be implemented immediately following EC approval of PRR 151.</p>
<p>10. Comments</p>	<p>1. IEEE Standard 2800-2022: Section 8 “Power quality” is excluded from this PRR as a requirement.</p> <p>2. The term “Large Facility” in this PRR is adopted based on the FERC Large Generating Facility definition of facilities with capacities greater than 20 MWs.</p>

11. Date Rule Adopted	
12. PRR Revision Dates	Initial draft 1/8/2023; 1/9/23

Attachment A

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