PRR 151: 1<u>-23-24</u>

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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.

| 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 151: Establish minimum interconnection standards for Large Inverter Based | |
| Rule or Requirement change | Resource (IBR) Generating Facilities based on IEEE Standard 2800-2022 | |
| | | |
| 2. Rule Change Requester | | |
| Information | | |
| Name | RRS | |
| Organization | NYSRC | |
| | | |
| 3. New rule or revision to existing | New rule. B.5: Establishing New York Control Area (NYCA) Interconnection | |
| rule? | Standards for Large IBR Generating Facilities | |
| | | |
| 4. Need for rule change, including | The NYISO Interconnection Queue as of 6/30/23 has approximately 120,000 MWs | |
| advantages and disadvantages | of Large Facility (>20 MW) Inverter Based Resources (IBR). NYSRC does not | |
| | presently have specific IBR interconnection criteria in its Reliability Rules. PRR 151 | |
| | is therefore proposed for EC approval to be applicable to all future IBR projects | |
| | seeking interconnection to the NYCA. | |
| | | |
| | This proposal is based upon: (1) recent disturbances in Texas, California and Utah | |
| | where IBRs failed to perform reliably; (2) the cumulative magnitude of IBRs in | |
| | | |
| | NYCA per New York State's CLCPA mandates; (3) NERC's recommendation for | |
| | Authorities Governing Interconnection Requirements (AGIR) to immediately | |
| | adopt IEEE Standard 2800-2022; (4) FERC's RM22-12-000 NOPR on Reliability | |
| | Standards to Address Inverter Based Resources; and (5) FERC Order 2023 on | |
| | Improvements to Generator Interconnection Procedures and Agreements. | |
| | It is noted that IEEE 2800-2022 compliant IBR Plant specifications will evolve from | |
| | the as-designed stage through the as-built stage. Corresponding models and data | |
| | likewise will evolve from those required for interconnection studies (as-designed | |
| | IBR Plant) to those required for test and verification studies (as-built IBR Plant). | |
| | by Fland, to those required for test and vernication studies (as-built by Fland). | |
| | DDD 4541; formed as the later sector shades the factor of the sector d DD | |
| | PRR 151 is focused on the interconnection study stage for the as-designed IBR | |
| | Plant with the adoption of a critical subset of IEEE Standard 2800-2022 | |
| | requirements, as amended for NYCA applicability. Further revisions to | |
| | incorporate and adopt all pertinent IEEE Standard 2800-2022 requirements will | |
| | be included in subsequent PRRs. | |
| | | |
| | The advantage to immediate adoption of PRR 151 is that it establishes minimum | |
| | IBR interconnection criteria critical to NYCA reliability as NYCA transitions to | |
| | higher penetration of inverter-based resources per CLCPA mandates. There are | |
| | no disadvantages. | |
| | no uisauvanidges. | |
| | | |
| 5. Related NYSRC rules | Reliability Rule B.4 - Transmission System Interconnection Special Studies | |
| | Reliability Rule I - Modeling and Data, I.4 - Transmission Data | |
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| 6. Section A – Reliability Rule | |
|---------------------------------|--|
| Elements | |
| 1. Reliability Rule | NYISO's Interconnection Studies for Large (>20 MW) IBR Generating Facilities shall be based on IBR Plants compliant with the IEEE 2800-2022 Standard as amended for NYCA application, and their associated IBR models and data. |
| 2. Associated NERC | NPCC: Directory 1 |
| Standards & NPCC | NERC: All Standards under review for IBR application |
| Standards and Criteria | IEEE: Standard 2800-2022 "IEEE Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems" |
| 3. Applicability | Interconnection Studies of Large IBR Generating Facilities |
| | |
| 7. Section B - Requirements | R1. The NYISO shall prepare and maintain procedures for the NYISO's Interconnection Studies process requiring that Large IBR Generating Facility Developers: |
| | R1.1. Attest that their IBR plant will be designed to be in compliance with the mandatory requirements of IEEE 2800-2022, as amended by "NYSRC Procedure for Application of IEEE 2800-2022 Standard for the New York Control Area". R1.2. Attest that the models and data provided for use in NYISO's <i>Interconnection Studies</i> accurately simulate the performance of their compliant IBR plant per R1.1. |
| | R2. Each Large IBR Generating Facility Developer subject to the NYISO's Interconnection Studies process shall: |
| | R2.1. Attest that their IBR plant will be designed to be in compliance with the mandatory requirements of IEEE 2800-2022, as amended by "NYSRC Procedure for Application of IEEE 2800-2022 Standard for Large IBR Generating Facilities for the New York Control Area". R2.2. Attest that the models and data provided for use in NYISO's <i>Interconnection Studies</i> accurately simulate the performance of their compliant IBR plant per R2.1. |
| 8. Section C – Compliance | |
| Elements | |
| 1. Measures | M1. The NYISO self-certified and provided evidence that it had procedures in |
| | place for implementing the Large IBR Generating Facility Developer's |
| | interconnection requirements in accordance with R1.1 and R1.2 |
| | M2. The NYISO certified that each Large IBR Generating Facility Developer |
| | attested to 1) the IEEE 2800-2022 compliance requirements in R2.1, and 2) |
| | the accuracy of the models and data provided as required by R2.2. |
| 2. Levels of Non-Compliance | 2.1 Measure 1: |
| | Level 1: Not applicable |
| | Level 2: Not applicable. |
| | Level 3: The NYISO had procedures covering requirement R1.1 but failed to have procedures for requirement R1.2. |

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Level 4: Not applicable. 2.2 Measure 2: Level 1: Not applicable. Level 2: Not applicable. Level 3: The NYISO certified that the required attestation was not submitted to the NYISO in accordance with R.2.1 and R.2.2. Level 4: Not applicable.

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| 3. Compliance Monitoring Process (See Policy 4) | No change. | |
|--|---|--|
| 3.1 Compliance Monitoring Responsibili | ty | |
| 3.2 Reporting Frequency | No change | |
| 3.3 Compliance Reporting Requirements | No change | |
| 9. Implementation Plan | This new rule to be applicable to: All Large IBR Generating Facilities in all Class Year studies or equivalent of Class Year studies succeeding CY 2023, including transition studies. | |

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| 10. Comments 1.EEE Standard 2800-2022: "EEE Standard for Interconnection and Intercoprehility of Intercenses Rel (Biotycence) (Bioty Interce) State Release (Copyright, south State) (Entroperhility of Intercenses Rel Release of Kiounnent/97/82/23) 2. New Glossary Terms: • "Large IBR Generating Facility" in this PRR is based on: • "Large IBR Generating Facility" in this PRR is based on: • "Large IBR Generating Facility" in this PRR is based on: • Targe IBR Generating Facility" in this PRR is based on: • TeRCS definition of Large Generating Facility is the standard tar an single reference point of applicability (IPRA), and • TREX: Self-Inition of Large Generating Facility: In this PRR is based upon the studies outlined in NYIGO's OATT Attachment X and Transmission Expansion and Interconnection Studies" in this PRR is based upon the studies outlined in NYIGO's OATT Attachment X and Transmission Expansion and Interconnection Studies and IBR Plant Developer' as used in this PRR is pecificable apply to the IBR Developer of IBR Plant Owner OHR Plant Operation Can are not mandatory. • Stection 12: Messurements for this PRR Specificable apply to the IBR Developer Whete: • Requirements designated with the word "shall" are mandatory. • Stection 12: Messurements I Data for Performance Monitoring and Validation • Stection 12: Messurement Data for Performance Monitoring and Validation • Stection 12: Messurement Data for Performance Monitoring and Validation • Stection 12: Messurement Data for Performance Monitoring and Validation • Stection 12: Messurement Data for Performance Monintoring and Validation Meset • | | | ······································ |
|---|--------------|--|--|
| Associated Trainsion Electric Power System ¹ is covered by LEE Copyright, available through LEE Xalore. They Aldecover VdScurrent/VdSc223 2. New Glossary Terms: • "targe IB Generating Facility" in this PRR is based on: • ELEE Standard 2800-2022 definition of a grouping of one or more IBR unt(1) and possibly supplemental BR device(3) operated by a common Facility level controller along with a collector system to achieve the performance requirements of this standard at a single reference point of applicability (RPA), and • TeRCS definition of Large Generating Facilities having capacities greater than 20 MWs. • "Interconnection Studies" In this PRR are based upon the studies outlined in NYISO 20ATT Attachment X and Transmission Expansion and interconnection Manual. • "IBR Plant Developer" as used in this PRR includes an IBR Plant Developer or IRP Plant Overor or IBR Plant Operation. 3. LEEZ 2800-2022 requirements for this PRR specifically apply to the IBR Developer or IBR Plant Overor or IBR Plant Overor or Cam ² are not mandatory. 4. Exclusions from the requirements in IEEE 2800-2022 for this PRR are: • Section 12. Text and Verification Requirements • Section 12. Text and Verification Requirements for HVDC fariation Actual for IBR plant Covered In future PRR. • LEEE Standard 2800-2022 close not explicitly specify requirements for HVDC fariation. Role and data for IBR plant covered in future PRR. • LEEE Standard 2800-2022 close not explicitly specify requirements for HVDC fariation. Requirements in IEEE 2800-2022 for Vision Risk and data, and their public wardings studies are not required by this PRR but may be required by the as-built requirements for HVDC fariation. Requirements in IEEE Standard 2800- 2022 may be modified at and for IBR plant compliant with IEEE Standard 2800- 2022 may be modified at and for IBR plant compliant with IEEE Standard 2800- 2022 may be modified at for IBR plant compliant with IEEE Standard 2800- 2022 may be modified at Bir plant rongress through the as | 10. Comments | 1. IEEE Standard 2800-2022: "IEEE Standard for Interconnection and | |
| available through IEEE Xplore: <u>https://levego/opre/ieee.org/document/9752233</u> 2. New Glossary Terms: "Large IBR Generating Facility" in this PRR is based on: IEEE Standard 2800-2022 definition of a grouping of one or more IBR unt(s) and possibly supplemental IBR device(s) operated by a common Facility (vev controller about the source structure to the performance requirements of this standard at a single reference point of applicability (RPA), and PERC's definition of Large Generating Facilities having capacities greater than 20 MWs. "Interconnection Studies" in this PRR are based upon the studies outlined in MYSO's QAT Hatchment X and Transmission Expansion and Interconnection Manual. "IBR Pant Developer" as used in this PRR includes an IBR Plant Developer verifies. Requirements designated with the word" shall" are mandatory. Requirements designated with the word" shall" are mandatory. Requirements designated with the words "should", "may" or "can" are not mandatory. Section 1D: Modeling Data Section 2: Teys and Verification Requirements for the opticabilities connecting isolated IBK to the AC transmission system. BR models and data for IBR plant comprisent Structure PRs. IEEE Standard 28:00-2022 the sections to Reliability Rules and models and data, and their updating during the variaus stage of interconnection areadressed by NISCIS existing Reliability Rules and Modeling ID aba. WISCIC Policy J. Section 5: Excercions to Reliability Rules and models and data, and t | | | |
| 2. New Glossary Term: " "Large IBB Generating Facility" in this PRR is based on: IEEE Standard 2800-2022 definition of a grouping of one or more IBR unit(s) and possibly synophemetal IBR device(s) poeted by a common Facility level controller along with a collector system to achieve the performance requirements of this standard at a single reference point of explicibility (RPA), and FERCS definition of Large Generating Facilities having capacities greater than 20 MWs. " InterconnectionStudies" In this PRR are based upon the studies outlied in NMS3 0.007T Attachment X and Transmission Expansion and interconnection Manual. " IBR Plant Developer" as used in this PRR includes an IBR Plant Developer or IBR Plant Operator. 3. IEEE 200-2022 requirements designated with the word "shall" are mandatory. Requirements designated with the words "should", "may" or "can" are not mandatory. Exclusions from the requirements in IEEE 2800-2022 for this PRR are: Section ID: Modeling Data Miscellaneous Notes IEM Throdes and studies are not requirements for VSC-HVDC transmission facilities counceting isolated IBR to the AC transmission system. IBR models and data for IBR plant progresses through the interconnection procedures the syl Plant progresses through the definition drive contains during during the values stages of interconnection aread data. Ar Transmission Data. NYSRC Policy 1, Section 5: Exceptions to Reliability Rule 1- Modeling and Data, 14 - Transmission Data. NYSRC Policy 1, Section 5: Exceptions to Reliability Rule 1.15 % | | | |
| "Large IBR Generating Facility" In this PRB is based on: IEEE Standard 2800-2022 definition of grouping of one or more IBR unit(s) and possibly supplemental IBR device(s) operated by a common Facility (rev) controller and ong with a collector system to achieve the performance requirements of this standard at a single reference point of applicability (RPA), and FERC's definition of Large Generating Facilities having capacities greater than 20 MWs. "Interconnection Studies" in this PRB are based upon the studies outlined INMS'S's QBT Attachment X and Transmission Expansion and Interconnection Manual. "IBR PIN Developer 'a suced in this PRB performance Repairements and Specifically apply to the IBR Developer or IBR PINAT Operator 'a suced in this PRB specifically apply to the IBR Developer or BRP PINAT Operator 'a shaft' are mandatory. Requirements designated with the words "shaft" are mandatory. Requirements designated with the words "shaft" are mandatory. Section 10: Modeling Data Section 11: Mesus energy Tota for Performance Monitoring and Violidation Section 12: Trea and Verification Requirements for HOT models and Studie are not requirements for HOT models and Studie are not requirements for HOT models and Studie are not requirements for VSC-HVDC transmission fabilities connecting solated IBR to the XC transmission system. IBR models and data for IBR plant compliant twith IEEE Standard 2800- 2022 may be modified. Bits Josept or USE-JSC cosets the fability Rule covers exception process. The procedures for obtaining the asdesigned modes and data, and the IBR plant compliant with IEEE Standard 2800- 2022 may be modified. Bits Josept or Obtaining the asdesigned modes and data, and the IBR plant compliant with IEEE Standard 2800- 2022 may be modified. Bits Josept or Obtaining the asdesigned modes and data, and the IBR plant compliant with IEEE Standard 2800- ZD202 may be mo | | | |
| EEE Standard 200-2022 definition of a grouping of one or more IBR unit(s) and possibly supplemental IBR device(s) poerated by a common Facility level controller along with a collector system to achieve the performance requirements of this standard at a single reference point of applicability (RPA), and FERC's definition of Large Generating Facilities having capacities greater than 20 MWs. "Interconnection Studies" in this PRR are based upon the studies outlined in MYSO's OATT Attachment X and Transmission Expansion and interconnection Manual. IBEE 200: 2022 requirements for this PRR are based upon the studies outlined in MYSO's OATT Attachment X and Transmission Expansion and interconnection Manual. IBEE 200: 2022 requirements of this PRR part Developer or IBR Plant Operator. IBEE 200: 2022 requirements of this PRR part Developer where: Requirements designated with the word "shall" are mandatory. Requirements designated with the words "should", "may" or "can" are not mandatory. Exclusions from the requirements in IEEE 200: 2022 for this PRR are: Section 10: Modeling Data Section 10: Modeling Data Section 10: Modeling and Variation Requirements 5. Miscellaneous Notes IBE models and dutio are not required by this PRR but may be required by the as-built requirements for VSC-HVOC transmission facilities connecting isolated IBR to the AC transmission system. IBR models and duta for IBR plant progresses through the interconnection are addressed by NSRC's existing Beliability Rule 1- Modeling and Data, 14 - Transmission Data. NYSRC Policy 1, Section 5: Exceptions to Reliability Rule 1: Modeling and Data, 14 - Transmission Data. MYSRC Policy 1, Section 5: Exceptions to Reliability Rule covers resception procedures https://www.nyrcc.org/wp- content/uploads/2022/03/Pol/UCY-111-final-2-7-17.0df. A request for a curren | | | |
| unit(s) and possibly supplemental IBR device(s) generated by a common Facility (kee) controller along with a collector system to achieve the performance requirements of this standard at a single reference point of applicability (RPA), and FERC's definition of Large Generating Facilities having capacities greater than 20 MWs. "Interconnection Studies" in this PRR are based upon the studies outlined in NISO's OATT Attachment X and Transmission Expansion and Interconnection Manual. "IBR Plant Developer" as used in this PRR includes an IBR Plant Developer where: Requirements designated with the word'shall" are mandatory. Requirements designated with the word'shall" are mandatory. Requirements designated with the word'shall" are mandatory. LECUSLOB for the requirements in IEEE 2800-2022 for this PRR are: Section 11: Measurement Data for Performance Monitoring and Violation Section 12: Test and Verification Requirements 5. Miscellaneous Notes EEE Standar 2800-2202 does on tequired by this PRR but may be required by the as built requirements for VSC-HVDC transmission facilities, sourceyr, it does include requirements for HVDC facilities, includes are not required by this PRR but may be required by the as built requirements for VSC-HVDC transmission facilities connecting isolated IBR to the AC transmission system. BR models and data for IBR plant compliant with IEEE Standar 2800- 2022 may be modified as the IBR plant progresses through the interconnection are addressed by NYSRC's existing Reliability Rule 1- Modeling and Data, 14: Transmission Data. MYSRC Policy 1. Section 5: Exceptions to a Reliability Rule 1- Modeling and Data, 14: Transmission Data. MYSRC Policy 1. Section 5: Exceptions to a Reliability Rule 1- Modeling and Data, 14: Transmission Data. | | | |
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| Committee for approval. An Exception Change request to the | | · · · · · · · · · · · · · · · · · · · | |

PRR 151: 1<u>-23-24</u>

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| | Executive Committee shall be initiated in one of three ways: (1) a | |
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| | request by a transmission owner following an annual transmission | |
| | owner review of current exceptions, (2) a request made at any | |
| | time by a market participant, or (3) a request by the NYISO or any | |
| | member of the Executive Committee | |
| | | |
| 11. Date Rule Adopted | | |
| 12. PRR Revision Dates | 1/8/2023, 1/9/23, 2/16/23, 2/22/23, 3/1/23, 3/6/23, 9/28/23, 9/29/23, 10/9/23, | |
| | 10-17-23, 10/20/23, 11/1/23 <u>, 1/23/24</u> | |
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