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| **Date:** | August 13, 2024 |
| **To:** | Board of Directors |
| **From:** | Caitlin Smith, Technical Advisory Committee (TAC) Chair |
| **Subject:** | Non-Unanimous Revision Requests Recommended by TAC for Approval |

## Issue for the ERCOT Board of Directors

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| **ERCOT Board of Directors Meeting Date:** August 20, 2024  **Item No.:** 10.1 |

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| **Issue:**Consideration of the following Revision Request: Nodal Operating Guide Revision Request (NOGRR) recommended for approval by TAC (with opposing votes recorded):  * NOGRR245, Inverter-Based Resource (IBR) Ride-Through Requirements – URGENT. |
| **Background/History:** **Unless otherwise noted: (i) all Market Segments participated in each vote; (ii) For NPRRs, ERCOT Credit Staff and the Credit Finance Sub Group (CFSG) have reviewed the NPRR and do not believe it requires changes to credit monitoring activity or the calculation of liability; (iii) ERCOT supports the Revision Request; and (iv) the Independent Market Monitor (IMM) has no opinion on the Revision Request.**   * ***NOGRR245, Inverter-Based Resource (IBR) Ride-Through Requirements – URGENT***   **Sponsor:** ERCOT  **Proposed Effective Date:**  The first of the month following PUCT approval for all sections, with the exception of the grey-boxed paragraph (4)(c) of Section 2.12.1, which will be effective no earlier than March 1, 2025  **Estimated Impacts:** Between $150k and $250k; Between $1.3M and $1.8M (Annual Recurring O&M); Between $0.5M and $0.8M (Short term contract labor O&M); Between 7.2 and 8.2 Full-Time Employees (FTEs)  **Revision Description:** This NOGRR replaces the current voltage ride-through requirements for Intermittent Renewable Resources (IRRs) with voltage ride-through requirements for Inverter-Based Resources (IBRs) and Type 1 and Type 2 Wind-powered Generation Resources (WGRs) and provides new frequency ride-through requirements for IBRs and Type 1 and 2 WGRs consistent with or beyond requirements identified in the new 2800-2022 - Institute of Electrical and Electronics Engineers (IEEE) Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems (“IEEE 2800-2022 standard”).  **TAC Decision:** On 6/7/24, TAC voted to recommend approval of NOGRR245 as recommended by TAC in the 3/27/24 TAC Report as amended by the 6/5/24 ERCOT comments as revised by TAC. There was one opposing vote from the IREP (Demand Control 2) Market Segment and ten abstentions from the Independent Generator (Luminant), IPM (2) (Morgan Stanley, SENA), IREP (3) (Reliant, Rhythm Ops, APG&E), and Municipal (4) (GP&L, DME, CPS Energy, Austin Energy) Market Segments.  **ERCOT Opinion:** ERCOT supports approval of NOGRR245.  **ERCOT Market Impact Statement:** ERCOT has reviewed NOGRR245 as recommended for approval by TAC in the 6/7/24 TAC Report and believes the rate and severity of ride-through failures will be reduced as Resource Entities maximize their ride-through capability and implement the modified performance failure mitigation process. This version of NOGRR245 is a reasonable compromise that is responsive to most stakeholder concerns while addressing the reliability concerns ERCOT had with the version of NOGRR245 in the 3/27/24 TAC Report. Customers will likely continue to face exposure to the current high risk of instability and uncontrolled Outages until improvements are implemented by the Resource Entities of IBRs and Type 1 and Type 2 WGRs. As improved models are submitted as part of maximization efforts, ERCOT may discover limitations that had not been previously modeled leading to transmission congestion or transmission project needs as well.  The TAC Report and Impact Analysis for the Revision Request are included in the [ERCOT Board meeting materials](https://www.ercot.com/calendar/06182024-Board-of-Directors-Meeting).  In addition, the Revision Request and supporting materials are posted on the ERCOT website. |
| **Key Factors Influencing Issue:** The ROS met, discussed the issues, and submitted a report to TAC regarding NOGRR245. The TAC met, discussed the issues, and submitted a report to the Board regarding NOGRR245. The Board remanded NOGRR245 to TAC. The TAC met, discussed the issues, and again submitted a report to the Board regarding NOGRR245. |
| **Conclusion/Recommendation:** As more specifically described above, TAC recommends that the Board recommend approval of NOGRR245. |

**ELECTRIC RELIABILITY COUNCIL OF TEXAS, INC.**

**BOARD OF DIRECTORS RESOLUTION**

WHEREAS, after due consideration of the alternatives, the Board of Directors (Board) of Electric Reliability Council of Texas, Inc. (ERCOT) deems it desirable and in the best interest of ERCOT to recommend approval of the following Nodal Operating Guide Revision Request (NOGRR) recommended for approval by TAC:

* NOGRR245, Inverter-Based Resource (IBR) Ride-Through Requirements – URGENT.

THEREFORE, BE IT RESOLVED, that the Board hereby recommends approval of NOGRR245.

**CORPORATE SECRETARY’S CERTIFICATE**

I, Chad V. Seely, Corporate Secretary of ERCOT, do hereby certify that, at its August 20, 2024 meeting, the Board passed a motion approving the above Resolution by \_\_\_\_\_\_.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_ day of August, 2024.

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Chad V. Seely

Corporate Secretary