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| **Date:** | November 22, 2024 |
| **To:** | Board of Directors |
| **From:** | Caitlin Smith, Technical Advisory Committee (TAC) Chair |
| **Subject:** | Unopposed Revision Requests Recommended by TAC for Approval |

## Issue for the ERCOT Board of Directors

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| **ERCOT Board of Directors Meeting Date:** December 3, 2024  **Item No.:** 3.1 |

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| **Issue:**Consideration of the following Revision Requests: Nodal Protocol Revision Request (NPRRs), Nodal Operating Guide Revision Requests (NOGRRs), Other Binding Document Revision Requests (OBDRRs), and Planning Guide Revision Requests (PGRRs), recommended for approval by TAC (with no opposing votes recorded):  * NPRR1180, Inclusion of Forecasted Load in Planning Analyses; * NPRR1239, Access to Market Information; * NPRR1240, Access to Transmission Planning Information; * NPRR1245, Additional Clarifying Revisions to Real-Time Co-Optimization; * NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era; * NPRR1248, Correction to NPRR1197, Optional Exclusion of Load from Netting at EPS Metering Facilities which Include Resources; * NPRR1249, Publication of Shift Factors for All Active Transmission Constraints in the RTM; * NPRR1254, Modeling Deadline for Initial Submission of Resource Registration Data; * NOGRR266, Related to NPRR1239, Access to Market Information; * NOGRR267, Related to NPRR1240, Access to Transmission Planning Information; * NOGRR268, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era; * OBDRR052, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era; * OBDRR053, Alignment with NPRR1131, Controllable Load Resource Participation in Non-Spin, and Minor Clean-Ups; * PGRR107, Related to NPRR1180, Inclusion of Forecasted Load in Planning Analyses; * PGRR116, Related to NPRR1240, Access to Transmission Planning Information; and * PGRR118, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era. |
| **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.**   * ***NPRR1180, Inclusion of Forecasted Load in Planning Analyses***   **Sponsor:** Oncor  **Proposed Effective Date:** The first of the month following Public Utility Commission of Texas (PUCT) approval  **Estimated Impacts:** No impact  **Revision Description:** This NPRR revises the Protocols to address recent amendments to P.U.C. Subst. R. 25.101, Certification Criteria, which became effective on December 20, 2022. Specifically, NPRR1180 incorporates the requirement in P.U.C. Subst. R. 25.101(b)(3)(A)(ii)(II) for any reliability-driven transmission project review conducted by ERCOT to incorporate the historical load, forecasted load growth, and additional load seeking interconnection, in the ERCOT independent review.  **TAC Decision:** On 11/20/24, TAC voted to recommend approval of NPRR1180 as recommended by PRS in the 10/17/24 PRS Report and the 10/28/24 Revised Impact Analysis. There were four abstentions from the Consumer (2) (Residential, OPUC), Cooperative (GSEC), and Independent Power Marketer (IPM) (SENA) Market Segments.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1180 and believes it appropriately incorporates the requirement in P.U.C. Subst. R. 25.101(b)(3)(A)(ii)(II) for any reliability-driven transmission project review conducted by ERCOT to account for historical Load, forecasted Load growth, and additional Load seeking interconnection.  **IMM Opinion:** The IMM conditionally supports NPRR1180 in concept however the details of the robustness and use of data in developing inputs to the planning analysis are important. IMM support is contingent upon ERCOT's ability to apply reasonable methods to the data they are provided in order to produce the most accurate forecast for use in planning analysis.   * ***NPRR1239, Access to Market Information***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation – Priority 2025; Rank 4540  **Estimated Impacts:** Between $50K and $100K  **Revision Description:** This NPRR moves from the MIS Secure Area to the public ERCOT website, reports that do not contain ECEII. ERCOT Staff analyzed reports in the MIS Secure Area, along with existing Protocols for posting requirements, and identified no ongoing basis for holding in the MIS Secure Area reports determined to contain only information for a market audience and not ECEII.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of NPRR1239 as recommended by PRS in the 11/14/24 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1239 and believes it provides a positive market impact by improving access and transparency by moving reports that are not ECEII from the MIS Secure Area to the ERCOT website so the public can directly access reports without registering as a Market Participant and requesting ERCOT to issue a Digital Certificate, or without submitting an ERCOT Information Request.   * ***NPRR1240, Access to Transmission Planning Information***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation – Priority 2025; Rank 4540  **Estimated Impacts:** Between $40K and $60K  **Revision Description:** This NPRR moves from the MIS Secure Area to the public ERCOT website reports that do not contain ECEII. ERCOT Staff analyzed reports in the MIS Secure Area, along with existing Protocols for posting requirements, and identified no ongoing basis for holding in the MIS Secure Area reports determined to contain only Transmission planning information for a market audience and not ECEII. In addition to moving reports that do not contain ECEII to the ERCOT website, this NPRR also conforms rules with current posting practices for maintaining on the MIS Secure Area ECEII lists of equipment in the Outage Scheduler; for making available in the Model On Demand (MOD) application the annual planning model data submittal schedule; and for posting on the ERCOT website weekly Demand forecasts, demand analyses for 36 months and beyond, metrics of forecast error, and assessments of chronic congestion. This NPRR also clarifies that the TAC publicly reviews the Major Transmission Elements (MTE) list that isn’t ECEII, rather than the High Impact Transmission Elements (HITE) list that is ECEII; that Private Use Network Load distribution factor data would be redacted from postings on the “ERCOT website” rather than on the “MIS”; and that ERCOT’s monthly evaluations of chronic congestion are posted on the ERCOT website. Finally, this NPRR strikes the requirement to post on the ERCOT website shift schedules for ERCOT Operations Staff – currently, ERCOT posts shift schedules redacted of individuals’ identifying information, making the postings of little or no public use.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of NPRR1240 as recommended by PRS in the 11/14/24 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1240 and believes it provides a positive market impact by improving access and transparency by moving reports that are not ECEII from the MIS Secure Area to the ERCOT website so the public can directly access reports without registering as a Market Participant and requesting ERCOT to issue a Digital Certificate, or without submitting an ERCOT Information Request.   * ***NPRR1245,*** ***Additional Clarifying Revisions to Real-Time Co-Optimization***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation of PR447, Real-Time Co-Optimization (RTC)  **Estimated Impacts:** No impact  **Revision Description:** This NPRR was authored by ERCOT during the development of business requirements and adds certain clarifying revisions to the Protocols to address several gaps and errors in the existing approved Protocols for the Real-Time Co-optimization plus Batteries (RTC+B) project. These revisions broadly fall into three categories: 1. Catching up the Protocol language with other NPRRs that have been passed since the approval of the relevant RTC+B NPRRs, such as NPRR1093, Load Resource Participation in Non-Spinning Reserve; 2. Addressing errors in the language such as Settlement equation subscripts and references to the Supplemental Ancillary Service Market (SASM); and 3. Adding Protocol language to provide additional clarification based on the software requirements that have been developed for the RTC+B project.  **TAC Decision:** On 10/30/24, TAC voted unanimously to recommend approval of NPRR1245 as recommended by PRS in the 10/17/24 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1245 and believes the market impact for NPRR1245 implements several corrections and clarifications to Protocols and RTC grey-boxes, along with relevant updates to RTC grey-boxes necessitated by subsequent NPRR approvals.   * ***NPRR1246,*** ***Energy Storage Resource Terminology Alignment for the Single-Model Era***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation of PR447, Real-Time Co-Optimization (RTC)  **Estimated Impacts:** No impact  **Revision Description:** This NPRR inserts terminology associated with Energy Storage Resources (ESRs) in the appropriate places throughout the Protocols, aligning provisions and requirements for ESRs with those already in place for Generation Resources and Controllable Load Resources.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of NPRR1246 as recommended by PRS in the 11/14/24 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1246 and believes the market impact for NPRR1246 provides clarity and additional transparency for stakeholders on the applicable provisions and requirements associated with ESRs as the market transitions from the combo model to the single model as part of the RTC+B project.   * ***NPRR1248, Correction to NPRR1197, Optional Exclusion of Load from Netting at EPS Metering Facilities which Include Resources***   **Sponsor:** ERCOT  **Proposed Effective Date:** The first of the month following PUCT approval  **Estimated Impacts:** No impact  **Revision Description:** This NPRR corrects language in Section 11.1.6, ERCOT-Polled Settlement Meter Netting, which was implemented with the July 1, 2024 Protocols following PUCT approval of NPRR1197, Optional Exclusion of Load from Netting at ERCOT-Polled Settlement (EPS) Metering Facilities which Include Resources. The NPRR1197 2/8/24 PRS Report did not correctly reflect the PRS vote “to recommend approval of NPRR1197 as amended by the 2/7/24 Oncor comments as revised by PRS” in paragraph (6) of Section 11.1.6. This error carried through the ensuing 3/27/24 TAC Report and 4/23/24 Board Report, and was approved by the PUCT on 6/13/24. This NPRR aligns the language within Section 11.1.6 with the intended PRS action from February 8, 2024.  **TAC Decision:** On 10/30/24, TAC voted unanimously to recommend approval of NPRR1248 as recommended by PRS in the 10/17/24 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1248 and believes the market impact for NPRR1248 properly aligns Protocol language within Section 11.1.6 with PRS-recommended language inadvertently omitted from NPRR1197 reports.   * ***NPRR1249, Publication of Shift Factors for All Active Transmission Constraints in the RTM***   **Sponsor:** CIM View Consulting  **Proposed Effective Date:** Upon system implementation – Priority 2026; Rank 4740  **Estimated Impacts:** Between $25K and $45K  **Revision Description:** This NPRR requires ERCOT to publish Shift Factors for all active transmission constraints in the Real-Time Market (RTM), not just the binding transmission constraints.  **TAC Decision:** On 10/30/24, TAC voted unanimously to recommend approval of NPRR1249 as recommended by PRS in the 10/17/24 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1249 and believes that with the publication of Shift Factors for all active transmission constraints, it provides a positive market impact by improving transparency and efficiency by enabling Market Participants to shadow all aspects of the market clearing results.   * ***NPRR1254, Modeling Deadline for Initial Submission of Resource Registration Data***   **Sponsor:** ERCOT  **Proposed Effective Date:** March 1, 2025  **Estimated Impacts:** No impact  **Revision Description:** This NPRR requires Resource Entities to submit the initial Resource Registration data for a Generator Interconnection or Modification (GIM) project, required by paragraph (6) of Planning Guide Section 6.8.1, Resource Registration, four months prior to target inclusion in the ERCOT Network Operations Model. This provides a one-month period for ERCOT and the Resource Entities to address errors or deficiencies consistent with the process outlined in Planning Guide Section 6.8.2, Resource Registration Process.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of NPRR1254 as recommended by PRS in the 11/14/24 PRS Report with a recommended effective date of March 1, 2025.  **ERCOT Market Impact Statement:**   * ***NOGRR266, Related to NPRR1239, Access to Market Information***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1239  **Estimated Impacts:** No impact  **Revision Description:** This NOGRR moves from the MIS Secure Area to the public ERCOT website reports that do not contain ECEII. ERCOT Staff analyzed reports in the MIS Secure Area, along with existing Protocols for posting requirements, and identified no ongoing basis for holding in the MIS Secure Area reports determined to contain only information for a market audience and not ECEII.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of NOGRR266 as recommended by ROS in the 10/3/24 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR266 and believes it provides a positive market impact by improving access and transparency by moving reports that are not ECEII from the MIS Secure Area to the ERCOT website so the public can directly access reports without registering as a Market Participant and requesting ERCOT to issue a Digital Certificate, or without submitting an ERCOT Information Request.   * ***NOGRR267, Related to NPRR1240, Access to Transmission Planning Information***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1240  **Estimated Impacts:** No impact  **Revision Description:** This NOGRR moves from the MIS Secure Area to the public ERCOT website reports that do not contain ECEII. ERCOT Staff analyzed reports in the MIS Secure Area, along with existing Protocols for posting requirements, and identified no ongoing basis for holding in the MIS Secure Area reports determined to contain only Transmission planning information for a market audience, consisting of percentages of Transmission Outage totals by scheduling and type, and monthly reports that show the rates at which solutions converged in the State Estimator application and not ECEII.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of NOGRR267 as recommended by ROS in the 10/3/24 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR267 and believes it provides a positive market impact by improving access and transparency by moving reports that are not ECEII from the MIS Secure Area to the ERCOT website so the public can directly access reports without registering as a Market Participant and requesting ERCOT to issue a Digital Certificate, or without submitting an ERCOT Information Request.  **IMM Opinion:**   * ***NOGRR268, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1246  **Estimated Impacts:** No impact  **Revision Description:** This NOGRR inserts terminology associated with ESRs in the appropriate places throughout the Guides, aligning provisions and requirements for ESRs with those already in place for Generation Resources and Controllable Load Resources.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of NOGRR268 as recommended by ROS in the 11/7/24 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR268 and believes the market impact for NOGRR268 provides clarity and additional transparency for stakeholders on the applicable provisions and requirements associated with ESRs as the market transitions from the combo model to the single model as part of the RTC+B project.   * ***OBDRR052, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1246  **Estimated Impacts:** No impact  **Revision Description:** This OBDRR inserts terminology associated with ESRs in the appropriate places throughout the Procedure for Identifying Resource Nodes, aligning provisions and requirements for ESRs with those already in place for Generation Resources and Controllable Load Resources.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of OBDRR052 as amended by the 10/14/24 ERCOT comments; and the 7/31/24 Impact Analysis.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed OBDRR52 and believes the market impact for OBDRR052 provides clarity and additional transparency for stakeholders on the applicable provisions and requirements associated with ESRs as the market transitions from the combo model to the single model as part of the RTC+B project.   * ***OBDRR053, Alignment with NPRR1131, Controllable Load Resource Participation in Non-Spin, and Minor Clean-Ups***   **Sponsor:** ERCOT  **Proposed Effective Date:** The first of the month following PUCT approval  **Estimated Impacts:** No impact  **Revision Description:** This OBDRR aligns the Non-Spinning Reserve Deployment and Recall Procedure with revisions from NPRR1131, Controllable Load Resource Participation in Non-Spin, along with other minor clean-ups.  **TAC Decision:** On 10/30/24, TAC voted unanimously to recommend approval of OBDRR053 as submitted and the 10/17/24 Impact Analysis.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed OBDRR053 and believes the market impact for OBDRR053 maintains alignment between this Other Binding Document and the Protocols.   * ***PGRR107, Related to NPRR1180, Inclusion of Forecasted Load in Planning Analyses***   **Sponsor:** Oncor  **Proposed Effective Date:** Upon implementation of NPRR1180  **Estimated Impacts:** No impact  **Revision Description:** This PGRR aligns the Planning Guide with NPRR1180. PGRR107 revises the Planning Guide to address recent amendments to P.U.C. Subst. R. 25.101, Certification Criteria, which became effective on December 20, 2022. Specifically, PGRR107 incorporates the requirement in P.U.C. Subst. R. 25.101(b)(3)(A)(ii)(II) for any review of project need conducted by ERCOT to incorporate the historical load, forecasted load growth, and additional load seeking interconnection, in ERCOT’s analysis, while recognizing that ERCOT’s Regional Transmission Plan will include only that load that ERCOT has determined to be credibly supported by quantifiable evidence of load growth. PGRR107 also requires a Regional Planning Group (RPG) project submitter to provide such information to ERCOT, when available, for inclusion in ERCOT’s planning analyses.  **TAC Decision:** On 11/20/24, TAC voted to recommend approval of PGRR107 as recommended by ROS in the 11/7/24 ROS Report. There were four abstentions from the Consumer (2) (Residential, OPUC), Cooperative (GSEC), and Independent Power Marketer (IPM) (SENA) Market Segments.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed PGRR107 and believes it appropriately aligns the Planning Guide with NPRR1180, which incorporates the requirement in P.U.C. Subst. R.25.101(b)(3)(A)(ii)(II) for any reliability-driven transmission project review conducted by ERCOT to account for historical Load, forecasted Load growth, and additional Load seeking interconnection.  **IMM Opinion:** The IMM conditionally supports PGRR107 in concept however the details of the robustness and use of data in developing inputs to the planning analysis are important. IMM support is contingent upon ERCOT's ability to apply reasonable methods to the data they are provided in order to produce the most accurate forecast for use in planning analysis.   * ***PGRR116, Related to NPRR1240, Access to Transmission Planning Information***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation of NPRR1240  **Estimated Impacts:** No impact  **Revision Description:** This PGRR updates Planning Guide language to reflect the current practice of posting versions of the ERCOT Long-Term System Assessment (LTSA) and correspondingly updates the chart of data sets and designated classifications in paragraph (2) of Section 7.1, Planning Data and Information. The PGRR moves from the MIS Secure Area to the public ERCOT website, Transmission Service Provider (TSP) Annual Planning Criteria and correspondingly updates the chart of data sets and designated classifications in paragraph (2) of Section 7.1.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of PGRR116 as recommended by ROS in the 10/30/24 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed PGRR116 and believes it provides a positive market impact by improving access and transparency by moving reports that are not ECEII from the MIS Secure Area to the ERCOT website so the public can directly access reports without registering as a Market Participant and requesting ERCOT to issue a Digital Certificate, or without submitting an ERCOT Information Request.   * ***PGRR118, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1246  **Estimated Impacts:** No impact  **Revision Description:** This PGRR inserts terminology associated with ESRs in the appropriate places throughout the Guides, aligning provisions and requirements for ESRs with those already in place for Generation Resources and Controllable Load Resources.  **TAC Decision:** On 11/20/24, TAC voted unanimously to recommend approval of PGRR118 as recommended by ROS in the 11/7/24 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed PGRR118 and believes the market impact for PGRR118 provides clarity and additional transparency for stakeholders on the applicable provisions and requirements associated with ESRs as the market transitions from the combo model to the single model as part of the RTC+B project.  **IMM Opinion:**  The TAC Reports and Impact Analyses for these Revision Requests are included in the [ERCOT Board meeting materials](https://www.ercot.com/calendar/08202024-Board-of-Directors-Meeting).  In addition, these Revision Requests and supporting materials are posted on the ERCOT website. |
| **Key Factors Influencing Issue:** The PRS met, discussed the issues, and submitted reports to TAC regarding NPRRs 1180, 1239, 1240, 1245, 1246, 1248, 1249, and 1254.  The ROS met, discussed the issues, and submitted reports to TAC regarding NOGRRs 266, 267 and 268; and PGRRs 107, 116 and 118.  The TAC met, discussed the issues, and took action on OBDRRs 052 and 053. |
| **Conclusion/Recommendation:** As more specifically described above, TAC recommends that the Board recommend approval of NPRRs 1180, 1239, 1240, 1245, 1246, 1248, 1249, and 1254; NOGRRs 266, 267 and 268; OBDRRs 052 and 053; and PGRRs 107, 116 and 118. |

**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 Protocol Revision Request (NPRRs), Nodal Operating Guide Revision Requests (NOGRRs), Other Binding Document Revision Requests (OBDRRs), and Planning Guide Revision Requests (PGRRs), recommended for approval by TAC (with no opposing votes recorded):

* NPRR1180, Inclusion of Forecasted Load in Planning Analyses;
* NPRR1239, Access to Market Information;
* NPRR1240, Access to Transmission Planning Information;
* NPRR1245, Additional Clarifying Revisions to Real-Time Co-Optimization;
* NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era;
* NPRR1248, Correction to NPRR1197, Optional Exclusion of Load from Netting at EPS Metering Facilities which Include Resources;
* NPRR1249, Publication of Shift Factors for All Active Transmission Constraints in the RTM;
* NPRR1254, Modeling Deadline for Initial Submission of Resource Registration Data;
* NOGRR266, Related to NPRR1239, Access to Market Information;
* NOGRR267, Related to NPRR1240, Access to Transmission Planning Information;
* NOGRR268, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era;
* OBDRR052, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era;
* OBDRR053, Alignment with NPRR1131, Controllable Load Resource Participation in Non-Spin, and Minor Clean-Ups;
* PGRR107, Related to NPRR1180, Inclusion of Forecasted Load in Planning Analyses;
* PGRR116, Related to NPRR1240, Access to Transmission Planning Information; and
* PGRR118, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era.

THEREFORE, BE IT RESOLVED, that the Board hereby recommends approval of NPRRs 1180, 1239, 1240, 1245, 1246, 1248, 1249, and 1254; NOGRRs 266, 267 and 268; OBDRRs 052 and 053; and PGRRs 107, 116 and 118.

**CORPORATE SECRETARY’S CERTIFICATE**

I, Chad V. Seely, Corporate Secretary of ERCOT, do hereby certify that, at its December 3, 2024 meeting, the Board passed a motion approving the above Resolution by \_\_\_\_\_\_.

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

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Chad V. Seely

Corporate Secretary