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| **Date:** | August 24, 2023 |
| **To:** | Board of Directors |
| **From:** | Caitlin Smith, Technical Advisory Committee (TAC) Vice 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:** August 31, 2023  **Item No.:** 3.1 |

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| **Issue:**Consideration of the following Revision Requests: Nodal Protocol Revision Requests (NPRRs), Load Profiling Guide Revision Request (LPGRR), Nodal Operating Guide Revision Requests (NOGRRs), Other Binding Document Revision Requests (OBDRRs), Planning Guide Revision Requests (PGRRs), Retail Market Guide Revision Request (RMGRR), and Resource Registration Glossary Revision Requests (RRGRRs) recommended for approval by TAC (with no opposing votes recorded):  * NPRR1150, Related to NOGRR230, WAN Participant Security; * NPRR1163, Related to LPGRR070, Discontinuation of Interval Data Recorder (IDR) Meter Weather Sensitivity Process; * NPRR1164, Black Start and Isochronous Control Capable Identification; * NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding; * NPRR1173, Changes Consistent With the Options Available to an MOU and EC Entering Retail Competition in the ERCOT Market; * NPRR1174, Market Participant’s Return of Settlement Funds to ERCOT Following Receipt of Overpayment; * NPRR1175, Revisions to Market Entry Financial Qualifications and Continued Participation Requirements; * NPRR1176, Update to EEA Trigger Levels; * NPRR1182, Inclusion of Controllable Load Resources and Energy Storage Resources in the Constraint Competitiveness Test Process; * NPRR1183, ECEII Definition Clarification and Updates to Posting Rules for Certain Documents without ECEII; * NPRR1185, HDL Override Payment Provisions for Verbal Dispatch Instructions; * NPRR1189, Updates to Language to Clarify the Allowable Regulation Ancillary Service Trades; * LPGRR070, Discontinuation of Interval Data Recorder (IDR) Meter Weather Sensitivity Process; * NOGRR215, Limit Use of Remedial Action Schemes; * NOGRR230, WAN Participant Security; * NOGRR247, Change UFLS Stages and Load Relief Amounts; * NOGRR249, Communication of System Operating Limit Exceedances; * NOGRR250, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding; * NOGRR251, Add Cold Weather Conditions to Template for Emergency Operations Plan; * NOGRR252, Related to NPRR1176, Update to EEA Trigger Levels; * OBDRR045, Additional Revisions to Demand Response Data Definitions and Technical Specifications; * OBDRR047, Revision to ERS Procurement Methodology regarding Unused Funds from Previous Terms; * PGRR103, Establish Time Limit for Generator Commissioning Following Approval to Synchronize; * PGRR108, Related to NPRR1183, ECEII Definition Clarification and Updates to Posting Rules for Certain Documents without ECEII; * RMGRR174, Related to NPRR1173, Changes Consistent With the Options Available to an MOU and EC Entering Retail Competition in the ERCOT Market; * RRGRR033, Related to NPRR1164, Black Start and Isochronous Control Capable Identification; and * RRGRR035, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding. |
| **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.**   * ***NPRR1150, Related to NOGRR230, WAN Participant Security***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NOGRR230  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NPRR beyond what was captured in the Impact Analysis for NOGRR230.)  **Revision Description:** This NPRR adds a requirement in Section 16.2.1, Criteria for Qualification as a Qualified Scheduling Entity, that states if a Qualified Scheduling Entity (QSE) represents a Resource Entity, Emergency Response Service (ERS) Resource, or another QSE and receives or transmits Wide Area Network (WAN) Data, as that term is defined in Section 2.1, Definitions, then it must maintain connection to a Secure Private Network (SPN) as described in Nodal Operating Guide Section 7, Telemetry and Communication. This NPRR also adds two definitions (‘Wide Area Network (WAN)’ and ‘Wide Area Network (WAN) Participant’) which were previously located in Nodal Operating Guide Section 1.4, Definitions.  **TAC Decision:** On 6/27/23, TAC voted unanimously to recommend approval of NPRR1150 as recommended by PRS in the 6/14/23 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1150 and believes that it has a positive market impact by addressing current operational issues by adding a requirement that states if a QSE represents a Resource Entity, ERS Resource, or another QSE and receives or transmits WAN Data, then it must maintain connection to an SPN.   * ***NPRR1163, Related to LPGRR070, Discontinuation of Interval Data Recorder (IDR) Meter Weather Sensitivity Process***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of LPGRR070  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NPRR beyond what was captured in the Impact Analysis for LPGRR070.)  **Revision Description:** This NPRR discontinues the process of evaluating Interval Data Recorder (IDR) Meters to determine if they are weather sensitive, in alignment with LPGRR070.  **TAC Decision:** On 6/27/23, TAC voted unanimously to recommend approval of NPRR1163 as recommended by PRS in the 5/10/23 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1163 and believes the market impact for NPRR1163 is that it appropriately discontinues the process of evaluating IDR Meters to determine if they are Weather Sensitive, a process that has become unnecessary with the increased use of BUSLRG/BUSLRGDG profile type codes.   * ***NPRR1164, Black Start and Isochronous Control Capable Identification***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation – Priority 2023; Rank 3810  **ERCOT Impact Analysis:** Between $75K and $125K; no impacts to ERCOT staffing; impacts to Grid Modeling Systems, Energy Management Systems, Resource Integration and Ongoing Operations (RIOO), and Data Management & Analytic Systems; ERCOT business processes will be updated; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR requires that Resource Entities identify whether a physical Resource has the potential capability (even if unverified) to be called upon or used during a black start emergency or if it has the capability for isochronous control, and requires that Resource Entities and Transmission Service Providers (TSPs) identify if a breaker or switch has a Synchroscope or Synchronism Check Relay. This NPRR defines the terms Black Start Capable Resource, Isochronous Control Capable Resource, Synchroscope, and Synchronism Check Relay.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NPRR1164 as recommended by PRS in the 8/10/23 PRS Report as revised by TAC.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1164 and believes the market impact for NPRR1164 is improved Black Start training capabilities and, if needed, improved situational awareness during a Blackout, as lists of units that are Black Start capable and are capable of isochronous control will be maintained in the Network Operations Model and Resource Registration data, and may be integrated with the ERCOT operations tools.   * ***NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation – Priority 2024; Rank 4050  **ERCOT Impact Analysis:** Between $350K and $550K; no impacts to ERCOT staffing; impacts to Market Operation Systems, Energy Management Systems, Data Management & Analytic Systems, and RIOO; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR clarifies various reliability requirements for Distribution Generation Resources (DGRs) and Distribution Energy Storage Resources (DESRs) that are seeking qualification to provide Ancillary Service(s) and/or participate in Security-Constrained Economic Dispatch (SCED).  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NPRR1171 as recommended by PRS in the 8/10/23 PRS Report as amended by the 8/18/23 ERCOT comments.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1171 and believes the market impact for NPRR1171 is identification of Ancillary Services that can be provided by DGRs and DESRs on feeders subject to Load shedding.   * ***NPRR1173, Changes Consistent With the Options Available to an MOU and EC Entering Retail Competition in the ERCOT Market***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR provides needed references to the Retail Market Guide to account for Texas Standard Electronic Transaction (TX SET) processing options for Municipally Owned Utility (MOU) or Electric Cooperative (EC) service areas.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NPRR1173 as recommended by PRS in the 6/14/23 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1173 and believes that it has a positive market impact by addressing current operational issues by inserting references to account for TX SET processing options for MOU or EC service areas.   * ***NPRR1174, Market Participant’s Return of Settlement Funds to ERCOT Following Receipt of Overpayment***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; ERCOT business processes will be updated; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR establishes a process that will allow a QSE or Congestion Revenue Right (CRR) Account Holder to return Settlement funds to ERCOT in the event that the QSE or CRR Account Holder receives an overpayment from ERCOT.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NPRR1174 as recommended by PRS in the 8/10/23 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1174 and believes the market impact for NPRR1174 provides a clear, cost-effective method to return overpayments to ERCOT for distribution to appropriate Market Participants.  **IMM Opinion:** The IMM supports NPRR1174.   * ***NPRR1175, Revisions to Market Entry Financial Qualifications and Continued Participation Requirements***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; ERCOT business processes will be updated; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR strengthens ERCOT’s market entry qualification and continued participation requirements for ERCOT Counter-Parties i.e., QSEs and CRR Account Holders, classifies information provided in the background check as Protected Information, modifies application forms for QSEs and CRR Account Holders, and adds a new background check fee to the ERCOT Fee Schedule.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NPRR1175 as recommended by PRS in the 8/10/23 PRS Report as revised by TAC.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1175 and believes the market impact for NPRR1175 is mitigated exposure to uplifts and bad actors by reducing the risk, by way of background checks, of re/entry to the ERCOT market by participants with a history of market manipulation or sanction by other markets.  **CFSG Review:** See 7/25/23 CFSG comments   * ***NPRR1176, Update to EEA Trigger Levels***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** Less than $20K (O&M); no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; ERCOT grid operations and practices will be updated.  **Revision Description:** This NPRR revises the Energy Emergency Alert (EEA) procedures to require a declaration of EEA Level 3 when Physical Responsive Capability (PRC) cannot be maintained above 1,500 MW and will require ERCOT to shed firm Load to recover 1,500 MW of reserves within 30 minutes. This NPRR also modifies the trigger levels for EEA Level 1 and EEA Level 2, changes the trigger for ERCOT’s consideration of alternative transmission ratings or configurations from Advisory to Watch when PRC drops below 3,000 MW, and restores a frequency trigger for the declaration of EEA Level 3 if the steady-state frequency drops below 59.8 Hz for any period of time.  **TAC Decision:** On 7/25/23, TAC voted unanimously to recommend approval of NPRR1176 as recommended by PRS in the 6/14/23 PRS Report; and the 7/25/23 Revised Impact Analysis.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1176 and believes it is necessary to increase the minimum PRC level that must be maintained so that the ERCOT grid can withstand the loss up to ERCOT’s single largest contingency and not trigger Under-Frequency Load Shed (UFLS) during the operating conditions the grid typically operates with lower reserves.   * ***NPRR1182, Inclusion of Controllable Load Resources and Energy Storage Resources in the Constraint Competitiveness Test Process***   **Sponsor:**ERCOT  **Proposed Effective Date:** Upon system implementation – Priority 2024; Rank 4030  **ERCOT Impact Analysis:** Between $60K and $90K; no impacts to ERCOT staffing; impacts to Market Operation Systems; ERCOT business processes will be updated; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR incorporates Controllable Load Resources and Energy Storage Resources (ESRs) into both the Long-Term and SCED versions of the Constraint Competitiveness Test (CCT). In the case of Controllable Load Resources, the Resources will not themselves be mitigated but will be used to identify if a Market Participant has market power in resolving a constraint on the transmission system. As is the case for other Resources, registration data will be used for these Resources in the Long-Term CCT process and Real-Time telemetry will be used in the SCED CCT process.  **TAC Decision:** On 7/25/23, TAC voted unanimously to recommend approval of NPRR1182 as recommended by PRS in the 7/13/23 PRS Report  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1182 and believes the market impact for NPRR1182 incorporates ESRs and Controllable Load Resources into CCT processes to better identify Market Participants’ market power and the implementation of these changes will improve the ability of the CCT process to evaluate competitiveness of the market in solving transmission congestion.  **IMM Opinion:** The IMM supports NPRR1182   * ***NPRR1183, ECEII Definition Clarification and Updates to Posting Rules for Certain Documents without ECEII***   **Sponsor:**ERCOT  **Proposed Effective Date:** Upon system implementation – Priority 2024; Rank 4040  **ERCOT Impact Analysis:** Between $50K and $75K; no impacts to ERCOT staffing; impacts to ERCOT Website and MIS Systems, Data Management & Analytic Systems, Channel Management Systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR revises rules associated with the general information documents determined not to include ERCOT Critical Energy Infrastructure Information (ECEII) to make them available to the public on the ERCOT website. This NPRR also removes from the definition of ECEII the reference to the federal Freedom of Information Act (FOIA), and removes antiquated or duplicative language related to Reliability Must-Run (RMR).  **TAC Decision:** On 7/25/23, TAC voted unanimously to recommend approval of NPRR1183 as recommended by PRS in the 7/13/23 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1183 and believes the market impact for NPRR1183 is improved information exchange to facilitate collaborative interaction, as certain documents have been determined to not contain ECEII but rather general information relating to planning financial criteria, Resource forecast criteria, Resource status updates not related to a Forced Outage, and projected Ancillary Service requirements.   * ***NPRR1185, HDL Override Payment Provisions for Verbal Dispatch Instructions***   **Sponsor:** LCRA  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; ERCOT grid operations and practices will be updated.  **Revision Description:** This NPRR adds in a provision for recovery of a demonstrable financial loss arising from a Verbal Dispatch Instruction (VDI) to reduce real power output.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NPRR1150 as recommended by PRS in the 8/10/23 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1185 and believes the market impact for NPRR1185 provides QSEs reasonable protection from suffering unrecoverable financial losses from VDIs to reduce real power output.   * ***NPRR1189, Updates to Language to Clarify the Allowable Regulation Ancillary Service Trades***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1136, Updates to Language Regarding a QSE Moving Ancillary Service Responsibility Between Resources  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NPRR beyond what was captured in the Impact Analysis for NPRR1136.)  **Revision Description:** This NPRR makes changes to the grey-boxed NPRR1136 language in Section 4.4.7.3, Ancillary Service Trades, to align the language with existing requirements in paragraph (10) in Section 3.16, Standards for Determining Ancillary Service Quantities, which states that “Resources can only provide FRRS-Up or FRRS-Down if awarded Regulation Service in the Day-Ahead Market (DAM) for that particular Resource, up to the awarded quantity.”  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NPRR1189 as recommended by PRS in the 8/10/23 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1189 and believes the market impact for NPRR1189 resolves conflicting language between existing Protocols and grey-boxed NPRR1136 language regarding allowable Ancillary Service trades.  **IMM Opinion:** The IMM supports NPRR1189.   * ***LPGRR070, Discontinuation of Interval Data Recorder (IDR) Meter Weather Sensitivity Process***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation  **ERCOT Impact Analysis:** Less than $10K (O&M); no impacts to ERCOT staffing; impacts to Settlements & Billing, ERCOT Website and MIS Systems, and Channel Management Systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This LPGRR discontinues the process of evaluating IDR Meters to determine if they are Weather Sensitive (WS).  **TAC Decision:** On 6/27/23, TAC voted unanimously to recommend approval of LPGRR070 as recommended by RMS in the 6/6/23 RMS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed LPGRR070 and believes the market impact for LPGRR070 appropriately discontinues the process of evaluating IDR Meters to determine if they are Weather Sensitive, a process that has become unnecessary with the increased use of BUSLRG/BUSLRGDG profile type codes.   * ***NOGRR215, Limit Use of Remedial Action Schemes***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation – Priority 2026; Rank 4700 (grey-boxed paragraph (3) of Section 11.1 and grey-boxed paragraph (1) of Section 11.2); October 1, 2023 (all remaining language)  **ERCOT Impact Analysis:** Between $1M - $1.5M; 0.5 FTEs in Operations Stability Analysis; impacts to Market Operations Systems, Energy Management Systems, Data Management & Analytic Systems; ERCOT business processes will be updated; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NOGRR will allow new Remedial Action Schemes (RASs) to be used only to address an actual or anticipated violation of transmission security criteria when market tools are insufficient to address those violations. This NOGRR also clarifies the procedures for retiring RASs.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NOGRR215 as recommended by ROS in the 8/3/23 ROS Report as revised by TAC; with a recommended effective date of 10/1/23 for all sections except grey-boxed paragraph (3) of Section 11.1 and paragraph (1) of Section 11.2 and which will be effective upon system implementation  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR215 and believes that it has a positive market impact by addressing current operational issues by allowing new RASs to be used only to address an actual or anticipated violation of transmission security criteria when market tools are insufficient to address those violations or to allow dispatchable Generation Resources to meet the Planning Guides minimum deliverability criteria.   * ***NOGRR230, WAN Participant Security***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NOGRR ensures integrity of Wide Area Network (WAN) Data transmission by adding a requirement to share data in a way that prevents Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks.  **TAC Decision:** On 6/27/23, TAC voted unanimously to recommend approval of NOGRR230 as recommended by ROS in the 6/8/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR230 and believes that it has a positive market impact by both addressing current operational issues and providing market efficiencies or enhancements by adding a requirement to share data in a way that prevents DoS and DDoS attacks.   * ***NOGRR247, Change UFLS Stages and Load Relief Amounts***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon system implementation  **ERCOT Impact Analysis:** Less than $10K (O&M); no impacts to ERCOT staffing; impacts to Energy Management Systems and Grid Decision Support Systems; no impacts to ERCOT business processes; ERCOT grid operations and practices will be updated.  **Revision Description:** This NOGRR modifies the ERCOT automatic UFLS program by increasing the number of Load shed stages from three to five and changing the Transmission Operator (TO) Load relief amounts to uniformly increment by 5% for each stage. The NOGRR also adds a UFLS minimum time delay of six cycles (0.1 seconds), and adds 59.1 Hz to the list of UFLS stages in paragraph (3) of Section 2.6.1. Additionally, this NOGRR revises the grey-boxed language from NOGRR226, Addition of Supplemental UFLS Stages, in Section 2.6.1 to provide that the TO Load value used to determine the TO Load at each frequency threshold in Table 1 will be the value of TO Load at the time frequency reaches 59.5 Hz, rather than the value of TO Load at the time of reaching each successive frequency threshold, consistent with the current method for determining TO Load in Table 1.  **TAC Decision:** On 7/25/23, TAC voted unanimously to recommend approval of NOGRR247 as recommended by ROS in the 7/6/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR247 and believes it will have a positive market impact by reducing the risk of generator instability during an underfrequency Load shed event.   * ***NOGRR249, Communication of System Operating Limit Exceedances***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NOGRR specifies the methods for TOs to receive electronic communication of system operating limit exceedances from ERCOT.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NOGRR249 as recommended by ROS in the 8/3/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR249 and believes the market impact for NOGRR249 is the establishment of an effective method for communicating system operating limit exceedances to impacted TOs in accordance with The North American Electric Reliability Corporation (NERC) Reliability Standards FAC-011-4, System Operating Limits Methodology for the Operations Horizon, and IRO-008-3, Reliability Coordinator Operational Analyses and Real-time Assessments.   * ***NOGRR250, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1171  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NPRR beyond what was captured in the Impact Analysis for NPRR1171.)  **Revision Description:** This NOGRR removes language that prohibits Distribution Service Providers (DSPs) from connecting DGRs and DESRs to circuits included in an UFLS scheme to align with NPRR1171. NPRR1171 recognizes that some DGRs and DESRs may be connected to circuits that are subject to Load shed.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of NOGRR250 as recommended by ROS in the 8/3/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR250 and believes the market impact for NOGRR250 is identification of Ancillary Services that can be provided by DGRs and DESRs on feeders subject to Load shedding.   * ***NOGRR251, Add Cold Weather Conditions to Template for Emergency Operations Plan***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NOGRR aligns Section 8, Attachment L with NERC Reliability Standard EOP-011-2, Emergency Preparedness and Operations, by adding cold weather conditions to the template used for the development of emergency operations plans.  **TAC Decision:** On 6/27/23, TAC voted unanimously to recommend approval of NOGRR251 as recommended by ROS in the 6/8/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR251 and believes the market impact for NOGRR251 aligns the template used by TOs to develop their emergency operations plans with the NERC Reliability Standard requiring applicable entities to include provisions to determine the reliability impacts of cold weather conditions within their operating plan(s) to mitigate operating emergencies.   * ***NOGRR252, Related to NPRR1176, Update to EEA Trigger Levels***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1176  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NOGRR beyond what was captured in the Impact Analysis for NPRR1176.)  **Revision Description:** This NOGRR aligns Nodal Operating Guide language with NPRR1176, which revises the EEA procedures to require a declaration of EEA Level 3 when PRC cannot be maintained above 1,500 MW and will require ERCOT to shed firm Load to recover 1,500 MW of reserves within 30 minutes, modifies the trigger levels for EEA Level 1 and EEA Level 2, changes the trigger for ERCOT’s consideration of alternative transmission ratings or configurations from Advisory to Watch when PRC drops below 3,000 MW, and restores a frequency trigger for the declaration of EEA Level 3 if the steady-state frequency drops below 59.8 Hz for any period of time.  **TAC Decision:** On 7/25/23, TAC voted unanimously to recommend approval of NOGRR252 as recommended by ROS in the 7/6/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NOGRR252 and believes it is necessary to increase the minimum PRC level that must be maintained so that the ERCOT grid can withstand the loss up to ERCOT’s single largest contingency and not trigger UFLS during the operating conditions the grid typically operates with lower reserves.   * ***OBDRR045, Additional Revisions to Demand Response Data Definitions and Technical Specifications***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This OBDRR incorporates minor edits to the Other Binding Document Demand Response Data Definitions and Technical Specifications. Changes include modifications to the list of Electric Service Identifiers (ESI IDs) provided to Retail Electric Providers (REPs) as well as a correction of several dates.  **TAC Decision:** On 6/27/23, TAC voted unanimously to recommend approval of OBDRR045 as submitted; and the 4/21/23 Impact Analysis.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed OBDRR045 and believes that it has a positive market impact by providing administrative changes to the Other Binding Document Demand Response Data Definitions and Technical Specifications including modifications to the list of ESI IDs that are provided to REPs as well as a correction of several dates.   * ***OBDRR047, Revision to ERS Procurement Methodology regarding Unused Funds from Previous Terms***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; ERCOT business processes will be updated; no impacts to ERCOT grid operations and practices.  **Revision Description:** This OBDRR clarifies treatment of unused funds from previous ERS Standard Contract Terms.  **TAC Decision:** On 7/25/23, TAC voted unanimously to recommend approval of OBDRR047 as submitted; and the 6/30/23 Impact Analysis.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed OBDRR047 and believes that it has a positive market impact by providing ERCOT discretion to more efficiently reallocate ERS funds based on the evolving risk during the ERS program year.  **IMM Opinion:** The IMM supports OBDRR047.   * ***PGRR103, Establish Time Limit for Generator Commissioning Following Approval to Synchronize***   **Sponsor:** ERCOT  **Proposed Effective Date:** October 1, 2023 (Priority – 2024; Rank – 4020 for automation)  **ERCOT Impact Analysis:** $40K - $60K; no impacts to ERCOT staffing; impacts to RIOO and Data Management & Analytic Systems; ERCOT business processes will be updated; no impacts to ERCOT grid operations and practices.  **Revision Description:** This PGRR requires an Interconnecting Entity to complete all conditions for commercial operation of a Generation Resource or ESR within 300 days of receiving approval for Initial Synchronization above 20 MVA from ERCOT.  **TAC Decision:** On 6/27/23, TAC voted unanimously to recommend approval of PGRR103 as recommended by ROS in the 6/8/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed PGRR103 and believes the market impact for PGRR103 helps alleviate reliability risk stemming from long delays in completing the Resource commission process by requiring Generation Resources and ESRs to complete all conditions required for commercial operation within 300 days of receiving ERCOT’s approval for Initial Synchronization above 20 MVA.   * ***PGRR108, Related to NPRR1183, ECEII Definition Clarification and Updates to Posting Rules for Certain Documents without ECEII***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1183  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this PGRR beyond what was captured in the Impact Analysis for NPRR1183.)  **Revision Description:** This PGRR updates the Planning Guide language to reflect the current practice of posting versions of the Regional Transmission Plan and versions of Geomagnetic Disturbance (GMD) assessments, correspondingly updates the data sets in paragraph (2) of Section 7.1, Planning Data and Information, and generally updates posting locations from “Public” to “ERCOT website”.  **TAC Decision:** On 7/25/23, TAC voted unanimously to recommend approval of PGRR108 as recommended by ROS in the 7/6/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed PGRR108 and believes the market impact for PGRR108 is Planning Guide language conformed to the existing practices of posting versions of the Regional Transmission Plan and versions of documents related to GMD activities.   * ***RMGRR174,*** ***Related to NPRR1173, Changes Consistent With the Options Available to an MOU and EC Entering Retail Competition in the ERCOT Market***   **Sponsor:** Lubbock Retail Integration Task Force (LRITF)  **Proposed Effective Date:** Upon implementation of NPRR1173  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NPRR beyond what was captured in the Impact Analysis for NPRR1173.)  **Revision Description:** This RMGRR provides needed references to Section 8.1, Municipally Owned Utility and/or Electric Cooperative Transmission and/or Distribution Service Provider Market, to account for TX SET processing options for MOU or EC service areas. This RMGRR also provides the expected operational references and practices of Nueces Electric Cooperative (NEC) and Lubbock Power & Light (LP&L).  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of RMGRR174 as recommended by RMS in the 8/1/23 RMS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed RMGRR174 and believes that it has a positive market impact by addressing current operational issues by adding references to account for Texas SET processing options for MOU or EC service areas and providing expected operational references and practices of NEC and LP&L.   * ***RRGRR033, Related to NPRR1164, Black Start and Isochronous Control Capable Identification***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1164  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NPRR beyond what was captured in the Impact Analysis for NPRR1164.)  **Revision Description:** This RRGRR adds data to the Resource Registration Glossary pursuant to NPRR1164.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of RRGRR033 as recommended by ROS in the 8/3/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed RRGRR033 and believes the market impact for RRGRR033 is improved Black Start training capabilities and, if needed, improved situational awareness during a Blackout, as lists of units that are Black Start capable and are capable of isochronous control will be maintained in the Network Operations Model and Resource Registration data, and may be integrated with the ERCOT operations tools.   * ***RRGRR035, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding***   **Sponsor:** ERCOT  **Proposed Effective Date:** Upon implementation of NPRR1171  **ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impacts to ERCOT computer systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices. (There are no additional impacts to this NPRR beyond what was captured in the Impact Analysis for NPRR1171.)  **Revision Description:** This RRGRR adds data fields consistent with NPRR1171.  **TAC Decision:** On 8/22/23, TAC voted unanimously to recommend approval of RRGRR035 as recommended by ROS in the 8/3/23 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed RRGRR035 and believes the market impact for RRGRR035 is identification of Ancillary Services that can be provided by DGRs and DESRs on feeders subject to Load shedding.  The TAC Reports and Impact Analyses for these Revision Requests are included in the [ERCOT Board meeting materials](https://www.ercot.com/calendar/08312023-Board-of-Directors-Meeting).  In addition, these Revision Requests ([NPRRs](https://www.ercot.com/mktrules/issues/nprr), [LPGRR](https://www.ercot.com/mktrules/issues/lpgrr), [NOGRR](https://www.ercot.com/mktrules/issues/nogrr)s, [OBDRR](https://www.ercot.com/mktrules/issues/obdrr)s, [PGRR](https://www.ercot.com/mktrules/issues/pgrr)s, [RMGRR](https://www.ercot.com/mktrules/issues/rmgrr), and [RRGRRs](https://www.ercot.com/mktrules/issues/rrgrr)) 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 1150, 1163, 1164, 1171, 1173, 1174, 1175, 1176, 1182, 1183, 1185, and 1189.  The RMS met, discussed the issues, and submitted a report to TAC regarding LPGRR070 and RMGRR174.  The ROS met, discussed the issues, and submitted reports to TAC regarding NOGRRs 215, 230, 247, 249, 250, 251, and 252; PGRRs 103 and 108; and RRGRRs 033 and 035.  The TAC met, discussed the issues, and took action on OBDRR045 and 047. |
| **Conclusion/Recommendation:** As more specifically described above, TAC recommends that the Board recommend approval of NPRRs 1150, 1163, 1164, 1171, 1173, 1174, 1175, 1176, 1182, 1183, 1185, and 1189; LPGRR070; NOGRRs 215, 230, 247, 249, 250, 251, and 252; OBDRRs 045 and 047; PGRRs 103 and 108; RMGRR174; and RRGRRs 033 and 035. |

**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 Requests (NPRRs), Load Profiling Guide Revision Request (LPGRR), Nodal Operating Guide Revision Requests (NOGRRs), Other Binding Document Revision Requests (OBDRRs), Planning Guide Revision Requests (PGRRs), Retail Market Guide Revision Request (RMGRR), and Resource Registration Glossary Revision Requests (RRGRRs) recommended for approval by TAC:

* NPRR1150, Related to NOGRR230, WAN Participant Security;
* NPRR1163, Related to LPGRR070, Discontinuation of Interval Data Recorder (IDR) Meter Weather Sensitivity Process;
* NPRR1164, Black Start and Isochronous Control Capable Identification;
* NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding;
* NPRR1173, Changes Consistent With the Options Available to an MOU and EC Entering Retail Competition in the ERCOT Market;
* NPRR1174, Market Participant’s Return of Settlement Funds to ERCOT Following Receipt of Overpayment;
* NPRR1175, Revisions to Market Entry Financial Qualifications and Continued Participation Requirements;
* NPRR1176, Update to EEA Trigger Levels;
* NPRR1182, Inclusion of Controllable Load Resources and Energy Storage Resources in the Constraint Competitiveness Test Process;
* NPRR1183, ECEII Definition Clarification and Updates to Posting Rules for Certain Documents without ECEII;
* NPRR1185, HDL Override Payment Provisions for Verbal Dispatch Instructions
* NPRR1189, Updates to Language to Clarify the Allowable Regulation Ancillary Service Trades;
* LPGRR070, Discontinuation of Interval Data Recorder (IDR) Meter Weather Sensitivity Process;
* NOGRR215, Limit Use of Remedial Action Schemes;
* NOGRR230, WAN Participant Security;
* NOGRR247, Change UFLS Stages and Load Relief Amounts;
* NOGRR249, Communication of System Operating Limit Exceedances;
* NOGRR250, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding;
* NOGRR251, Add Cold Weather Conditions to Template for Emergency Operations Plan;
* NOGRR252, Related to NPRR1176, Update to EEA Trigger Levels;
* OBDRR045, Additional Revisions to Demand Response Data Definitions and Technical Specifications;
* OBDRR047, Revision to ERS Procurement Methodology regarding Unused Funds from Previous Terms;
* PGRR103, Establish Time Limit for Generator Commissioning Following Approval to Synchronize;
* PGRR108, Related to NPRR1183, ECEII Definition Clarification and Updates to Posting Rules for Certain Documents without ECEII;
* RMGRR174, Related to NPRR1173, Changes Consistent With the Options Available to an MOU and EC Entering Retail Competition in the ERCOT Market;
* RRGRR033, Related to NPRR1164, Black Start and Isochronous Control Capable Identification; and
* RRGRR035, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding.

THEREFORE, BE IT RESOLVED, that the Board hereby recommends approval of NPRRs 1150, 1163, 1164, 1171, 1173, 1174, 1175, 1176, 1182, 1183, 1185, and 1189; LPGRR070; NOGRRs 215, 230, 247, 249, 250, 251, and 252; OBDRRs 045 and 047; PGRRs 103 and 108; RMGRR174; and RRGRRs 033 and 035.

**CORPORATE SECRETARY’S CERTIFICATE**

I, Jonathan M. Levine, Assistant Corporate Secretary of ERCOT, do hereby certify that, at its August 31, 2023 meeting, the Board passed a motion approving the above Resolution by \_\_\_\_\_\_.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_ day of August, 2023.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jonathan M. Levine

Assistant Corporate Secretary