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| **Date:** | August 9, 2022 |
| **To:** | Board of Directors |
| **From:** | Clif Lange, 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:** August 16, 2022  **Item No.:** 3.1 |

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| **Issue:**Consideration of the following Revision Requests: Nodal Protocol Revision Requests (NPRRs), System Change Request (SCR), Other Binding Document Revision Request (OBDRR), Planning Guide Revision Request (PGRR), and Retail Market Guide Revision Request (RMGRR), recommended for approval by TAC (with no opposing votes recorded):  * NPRR1085, Ensuring Continuous Validity of Physical Responsive Capability (PRC) and Dispatch through Timely Changes to Resource Telemetry and Current Operating Plans (COPs); * NPRR1131, Controllable Load Resource Participation in Non-Spin; * NPRR1133, Clarify Responsibilities for Submission of Planning Model Data for DC Ties; * NPRR1134, Related to RMGRR168, Modify ERCOT’s Mass Transition Responsibilities; * NPRR1135, Add On-Line Status Check for Resources Telemetering OFFNS for Ancillary Service Imbalance Settlements; * NPRR1136, Updates to Language Regarding a QSE Moving Ancillary Service Responsibility Between Resources; * NPRR1137, Updates to Section 1.1 to Modify the OBD List Review Timeline and Other Clarifications; * OBDRR040, ORDC Changes Related to NPRR1131, Controllable Load Participation in Non-Spin; * PGRR101, Related to NPRR1133, Clarify Responsibilities for Submission of Planning Model Data for DC Ties; * RMGRR168, Modify ERCOT’s Mass Transition Responsibilities; and * SCR822, Create Daily Energy Storage Integration Report and Dashboard;. |
| **Background/History:** **Unless otherwise noted: (i) all Market Segments participated in each vote; (ii) For NPRRs, ERCOT Credit Staff and the Credit Work Group (Credit WG) have reviewed the NPRR and do not believe it requires changes to credit monitoring activity or the calculation of liability; and (iii) ERCOT supports the revision request.**   * ***NPRR1085, Ensuring Continuous Validity of Physical Responsive Capability (PRC) and Dispatch through Timely Changes to Resource Telemetry and Current Operating Plans (COPs) [ERCOT]***   **Proposed Effective Date:** Upon system implementation – Priority 2022; Rank 2525  **ERCOT Impact Analysis:** Between $100K and $150K; no impacts to ERCOT staffing; impacts to Settlements & Billing Systems, Energy Management Systems, Data Management & Analytic Systems, Grid Decision Support Systems, and Market Operations Systems; no impacts to ERCOT business processes; ERCOT grid operations and practices will be updated.  **Revision Description:** This NPRR improves the validity of the Physical Responsive Capability (PRC) calculation and dispatch by requiring quicker updates by Qualified Scheduling Entities (QSEs) to the telemetered Resource Status, High Sustained Limit (HSL), and other relevant information.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of NPRR1085 as recommended by PRS in the 7/13/22 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1085 and believes the market impact for NPRR1085 is the provision of critical situational awareness to have an accurate value of PRC at all times as well as an accurate forecast of available generation capability and availability.   * ***NPRR1131, Controllable Load Resource Participation in Non-Spin [ERCOT]***   **Proposed Effective Date:** Upon system implementation – Priority 2023; Rank 3720  **ERCOT Impact Analysis:** Between $100K and $150K; no impacts to ERCOT staffing; impacts to Market Operation Systems, Credit, Settlements & Billing Systems, Energy Management Systems, and Grid Decision Support Systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR changes Controllable Load Resource participation in Non-Spinning Reserve (Non-Spin) from Off-Line to On-Line Non-Spin. Consistent with On-Line treatment, this NPRR also sets a bid floor of $75 per MWh for Controllable Load Resource capacity providing Non-Spin, equivalent to the offer floor for a Generation Resource providing On-Line Non-Spin and adds the requirement that if the QSE also assigns Responsive Reserve (RRS) and/or Regulation Up Service (Reg-Up) to a Controllable Load Resource that has been assigned Non-Spin, there will be a bid floor for the sum of the RRS, Reg-Up, and Non-Spin Ancillary Service Resource Responsibilities of $75 per MWh. ERCOT notes that the cap on a Real-Time Market (RTM) Energy Bid addressed in paragraph (2) of Section 6.4.3.1, RTM Energy Bids, remains unchanged.  **TAC Decision:**  On 6/27/22, TAC voted unanimously to recommend approval of NPRR1131 as recommended by PRS in the 6/9/22 PRS Report as amended by the 6/22/22 ERCOT comments.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1131 and believes the market impact for NPRR1131, along with OBDRR040, better aligns treatment of Controllable Load Resources as On-Line when participating in Non-Spin.   * ***NPRR1133, Clarify Responsibilities for Submission of Planning Model Data for DC Ties [ERCOT]***   **Proposed Effective Date:** Upon implementation of NPRR857, Creation of Direct Current Tie Operator Market Participant Role  **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 NPRR857.)  **Revision Description:** This NPRR clarifies the responsibilities of Direct Current Tie (DC Tie) Facility owners and DC Tie Operators (DCTOs) with respect to DC Tie model data.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of NPRR1133 as recommended by PRS in the 7/13/22 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1133 and believes the market impact for NPRR1133 is clarified responsibilities of DC Tie Facility owners and DCTOs with respect to certain modeling responsibilities.   * ***NPRR1134, Related to RMGRR168, Modify ERCOT’s Mass Transition Responsibilities [TX SET]***   **Proposed Effective Date:** Upon implementation of RMGRR168  **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 RMGRR168.)  **Revision Description:** This NPRR synchronizes ERCOT’s role and responsibilities with current market transactional solutions by removing the negative impacts experienced by Customers when their switch transactions are executed within the 60 days following a Mass Transition event as described in the P.U.C. SUBST. R. 25.43, Provider of Last Resort (POLR).  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of NPRR1134 as recommended by PRS in the 7/13/22 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1134 and believes the market impact for NPRR1134, along with RMGRR168, improves current operational issues by synchronizing ERCOT’s role and responsibilities regarding current market transactional solutions upon the removal of the “out-of-cycle” switch term and market process.   * ***NPRR1135, Add On-Line Status Check for Resources Telemetering OFFNS for Ancillary Service Imbalance Settlements [ERCOT]***   **Proposed Effective Date:** Upon system implementation – Priority 2022; Rank 3610  **ERCOT Impact Analysis:** Between $15K and $25K; no impacts to ERCOT staffing; impacts to Energy Management Systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR modifies the definition of the Real-Time Generation Resources with an Off-Line Non-Spin Schedule (RTOFFNSHSL) to allow non-zero values for this billing determinant only if the Resource was Off-Line when it telemetered OFFNS. This is to ensure accurate Settlement in the scenario where an On-Line Resource erroneously telemetered OFFNS.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of NPRR1135 as recommended by PRS in the 7/13/22 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1135 and believes the market impact for NPRR1135 improves Settlement accuracy in the scenario where an On-Line Resource erroneously telemetered OFFNS.   * ***NPRR1136, Updates to Language Regarding a QSE Moving Ancillary Service Responsibility Between Resources [ERCOT]***   **Proposed Effective Date:** Upon system implementation – Priority 2023; Rank 3720  **ERCOT Impact Analysis:** Between $15K and $25K; no impacts to ERCOT staffing; impacts to Market Operation Systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This NPRR makes changes to reflect the logic that will be in place after the implementation of Fast Frequency Response (FFR) Advancement project, the next phase of implementation for NPRR863, Creation of ERCOT Contingency Reserve Service and Revisions to Responsive Reserve. Specifically, the NPRR adds new paragraph (5) of Section 4.4.7.3, Ancillary Service Trades, to align with language in Section 6.4.7, QSE-Request Decommitment of Resources and Changes to Ancillary Service Resource Responsibility of Resources. These changes are for clarity only, and do not modify the system design. The new paragraph (6) of Section 4.4.7.3 is an additional check that needs to be in place to ensure a QSE does not replace a Regulation Service with Fast Responding Regulation Service (FRRS). This section does not need to be addressed in the FFR Advancement implementation, and it is ERCOT’s intent to implement this logic change in a future project.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of NPRR1136 as recommended by PRS in the 7/13/22 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1136 and believes the market impact for NPRR1136 clarifies Protocol language and provides increased flexibility to QSEs in managing their Ancillary Service supply responsibility.   * ***NPRR1137, Updates to Section 1.1 to Modify the OBD List Review Timeline and Other Clarifications [Eric Winters Goff LLC]***   **Proposed Effective Date:** October 1, 2022  **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 replaces the annual requirement to review the Other Binding Documents List with a four-year review cycle, and reflects additions of Protocol Sections.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of NPRR1137 as recommended by PRS in the 7/13/22 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed NPRR1137 and believes the market impact for NPRR1137 is efficient use of stakeholder time while maintaining familiarity with and oversight of the Other Binding Documents List.   * ***OBDRR040, ORDC Changes Related to NPRR1131, Controllable Load Participation in Non-Spin [ERCOT]***   **Proposed Effective Date:** Upon system implementation of NPRR1131  **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 OBDRR beyond what was captured in the Impact Analysis for NPRR1131.)  **Revision Description:** This OBDRR removes the Controllable Load Resource providing Non-Spin schedules and Regulation Service schedules from the capacity calculations in alignment with NPRR1131 as a standing deployment.  **TAC Decision:** On 6/27/22, TAC voted unanimously to recommend approval of OBDRR040 as submitted and the 4/25/22 Impact Analysis.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed OBDRR40 and believes the market impact for OBDRR040 aligns ORDC calculations with the treatment of Controllable Load Resources as On-Line when participating in Non-Spin.   * ***PGRR101, Related to NPRR1133, Clarify Responsibilities for Submission of Planning Model Data for DC Ties [ERCOT]***   **Proposed Effective Date:** Upon implementation of NPRR1133  **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 OBDRR beyond what was captured in the Impact Analysis for NPRR1133.)  **Revision Description:** The PGRR clarifies that the owner of the DC Tie Facility will provide the appropriate dynamic model data to its DCTO, and that the DCTO will then provide the data to ERCOT.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of PGRR101 as recommended by ROS in the 7/8/22 ROS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed PGRR101 and believes the market impact for PGRR101 is clarified responsibilities of DC Tie Facility owners and DCTOs with respect to certain modeling responsibilities.   * ***RMGRR168, Modify ERCOT's Mass Transition Responsibilities [Texas SET]***   **Proposed Effective Date:** Upon system implementation – Priority 2022; Rank 3600  **ERCOT Impact Analysis:** Between $50k and $75k; no impacts to ERCOT staffing; impacts to CRM & Registration Systems; no impacts to ERCOT business processes; no impacts to ERCOT grid operations and practices.  **Revision Description:** This RMGRR synchronizes ERCOT’s role and responsibilities with current market transactional solutions upon the removal of the “out-of-cycle” switch term and market process. This RMGRR also removes any negative impacts experienced by Customers when their switch transactions are being executed within the 60 days following a Mass Transition event as described in the P.U.C. SUBST. R. 25.43, Provider of Last Resort (POLR). Additionally, this RMGRR clarifies a Retail Electric Provider’s (REP’s) responsibility in providing timely Customer billing contact information files to ERCOT based upon P.U.C. SUBST. R. 25.43 requirements.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of RMGRR168 as recommended by RMS in the 5/3/22 RMS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed RMGRR168 and believes the market impact for RMGRR168 improves current operational issues by synchronizing ERCOT’s role and responsibilities regarding current market transactional solutions upon the removal of the “out-of-cycle” switch term and market process.   * ***SCR822, Create Daily Energy Storage Integration Report and Dashboard [Reliant]***   **Proposed Effective Date:** Upon system implementation – Priority 2022; Rank 3620  **ERCOT Impact Analysis:** Between $60K and $90K; no impacts to ERCOT staffing; impacts to Content Delivery Systems, Data Management & Analytic Systems, Energy Management Systems, 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 SCR creates a new daily integration report and dashboard for Energy Storage Resources (ESRs), similar to the current integration reports and dashboards for wind and solar.  **TAC Decision:** On 7/27/22, TAC voted unanimously to recommend approval of SCR822 as recommended by PRS in the 7/13/22 PRS Report.  **ERCOT Market Impact Statement:** ERCOT Staff has reviewed SCR822 and believes the market impact for SCR822 improves the market’s awareness regarding system wide energy storage production and consumption on or near Real Time basis.  The TAC Reports and Impact Analyses for these Revision Requests are included in the [ERCOT Board meeting materials](https://www.ercot.com/calendar/event?id=1646780139653).  In addition, these Revision Requests ([NPRRs](https://www.ercot.com/mktrules/issues/nprr), [OBDRR](https://www.ercot.com/mktrules/issues/obdrr), [PGRR](https://www.ercot.com/mktrules/issues/pgrr), [RMGRR](https://www.ercot.com/mktrules/issues/rmgrr), and [SCR](https://www.ercot.com/mktrules/issues/scr)) 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 1085, 1131, 1133, 1134, 1135, 1136, and 1137; and SCR822.  The TAC met, discussed the issues, and took action on OBDRR040.  The ROS met, discussed the issues, and submitted a report to TAC regarding PGRR101.  The RMS met, discussed the issues, and submitted a report to TAC regarding RMGRR168. |
| **Conclusion/Recommendation:** As more specifically described above, TAC recommends that the Board recommend approval of NPRRs 1085, 1131, 1133, 1134, 1135, 1136, and 1137; OBDRR040; PGRR101; RMGRR168; and SCR822. |

**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), System Change Request (SCR), Other Binding Document Revision Request (OBDRR), Planning Guide Revision Request (PGRR), and Retail Market Guide Revision Request (RMGRR) recommended for approval by TAC:

* NPRR1085, Ensuring Continuous Validity of Physical Responsive Capability (PRC) and Dispatch through Timely Changes to Resource Telemetry and Current Operating Plans (COPs);
* NPRR1131, Controllable Load Resource Participation in Non-Spin;
* NPRR1133, Clarify Responsibilities for Submission of Planning Model Data for DC Ties;
* NPRR1134, Related to RMGRR168, Modify ERCOT’s Mass Transition Responsibilities;
* NPRR1135, Add On-Line Status Check for Resources Telemetering OFFNS for Ancillary Service Imbalance Settlements;
* NPRR1136, Updates to Language Regarding a QSE Moving Ancillary Service Responsibility Between Resources;
* NPRR1137, Updates to Section 1.1 to Modify the OBD List Review Timeline and Other Clarifications;
* OBDRR040, ORDC Changes Related to NPRR1131, Controllable Load Participation in Non-Spin;
* PGRR101, Related to NPRR1133, Clarify Responsibilities for Submission of Planning Model Data for DC Ties;
* RMGRR168, Modify ERCOT’s Mass Transition Responsibilities; and
* SCR822, Create Daily Energy Storage Integration Report and Dashboard.

THEREFORE, BE IT RESOLVED, that the ERCOT Board hereby recommends approval of NPRRs 1085, 1131, 1133, 1134, 1135, 1136, and 1137; OBDRR040; PGRR101; RMGRR168; and SCR822.

**CORPORATE SECRETARY’S CERTIFICATE**

I, Jonathan M. Levine, Assistant Corporate Secretary of ERCOT, do hereby certify that, at its August 16, 2022 meeting, the Board passed a motion approving the above Resolution by \_\_\_\_\_\_.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_ day of August 2022.

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Jonathan M. Levine

Assistant Corporate Secretary