



**Date:** November 9, 2010  
**To:** ERCOT Board of Directors  
**From:** Brad Jones, Technical Advisory Committee (TAC) Chair  
**Subject:** Nodal Protocol Revision Requests (NPRRs)

**Issue for the ERCOT Board of Directors**

**ERCOT Board of Directors (ERCOT Board) Meeting Date:** November 16, 2010

**Agenda Item No.:** 6a

**Issue:**

Consideration of the following NPRRs:

- NPRR209 – Data Posting Changes to Comply with P.U.C. Subst. R. 25.505
- NPRR256 – Synchronize Nodal Protocols with Protocol Revision Request (PRR) 787, Add Non-Compliance Language to Qualified Scheduling Entity (QSE) Performance Standards (formerly “Add Violation Language to QSE Performance Standards”)
- NPRR257 – Synchronization with Nodal Operating Guide Section 9, Monitoring Programs and Changes to Posting Requirements of Documents Considered Critical Energy Infrastructure Information (CEII) (formerly “Synchronization with Nodal Operating Guide Section 9, Monitoring Programs”)
- NPRR258 – Synchronization with PRR824 and PRR833 and Additional Clarifications
- NPRR265 – Market Information System (MIS) Secure Area Posting of Resource Category – As-Built Clarification
- NPRR266 – Installed Capacity of Unregistered Distributed Generation (DG)
- NPRR267 – Allow ERCOT to Manage Operations Model Pseudo Devices
- NPRR268 – Posting Requirements of Verifiable Costs Documents
- NPRR269 – Synchronization of PRR830, Reactive Power Capability Requirement
- NPRR270 – Defining the Variable Used in the Wind Generation Formula
- NPRR271 – Synchronization to PRR850, Weather Responsiveness Determination for Interval Data Recorders
- NPRR272 – Definition and Participation of Quick Start Generation Resources
- NPRR276 – MIS Posting Requirement for the Network Operations Model Load Schedule
- NPRR277 – Removal of NPRR119 Language for Low Dispatch Limit (LDL) Calculation and Modification to the Security Constrained Economic Dispatch (SCED) Ramp Rate Calculation (formerly “Removal of NPRR119 Language for LDL Calculation”)
- NPRR278 – Emergency Interruptible Load Service (EILS) Modifications to Correct Self-Provision Settlement Equations, to Accommodate Advanced Metering Infrastructure, and other Clarifications
- NPRR281 – Replace Seven-Day (7-Day) Forecast Requirement for QSEs Representing Wind-powered Generation Resources (WGRs) NPRR285, Generation Resource Base Point Deviation Charge Corrections
- NPRR285 – Generation Resource Base Point Deviation Charge Corrections
- NPRR286 – Day-Ahead-Market (DAM) Credit – Non-Business Day Processing
- NPRR288 – Selection of Congestion Revenue Rights (CRR) Load Distribution Factors for Use in CRR Monthly and Annual Auctions



**Background/History:**

Unless otherwise noted: (i) all Market Segments were present for each vote and (ii) ERCOT Credit Staff and the Credit Work Group (CWG) have reviewed the revision request and do not believe it requires changes to credit monitoring activity or the calculation of liability.

- **NPRR209 – Data Posting Changes to Comply with P.U.C. SUBST. R. 25.505 [NRG Texas and Calpine].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**Chief Executive Officer (CEO) Determination:** No opinion on whether or not NPRR209 is necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** Less than fifty thousand dollars (\$50k); no ERCOT staffing impacts; Enterprise Data Warehouse (EDW) and Enterprise Information Service (EIS) will be modified; ERCOT business processes would be revised to accommodate this NPRR; no impacts to ERCOT grid operations or practices.

**Revision Description:** This NPRR removes a requirement to post certain State Estimator information that can be used to determine Resource status, which is confidential information as per Public Utility Commission of Texas (PUCT) rules.

**Procedural History:** NPRR209 was posted on February 5, 2010. On February 18, 2010, the motion to recommend approval of NPRR209 as submitted failed via roll call vote. The Protocol Revisions Subcommittee (PRS) then voted to table NPRR209. There were two (2) abstentions from the Cooperative and Investor Owned Utility (IOU) Market Segments. On March 25, 2010, PRS voted to recommend approval of NPRR209 as submitted via roll call vote. On April 22, 2010, PRS voted to endorse and forward the March 25, 2010 PRS Report and Impact Analysis for NPRR209 to TAC via roll call vote. On May 6, 2010, the motion to table NPRR209 at TAC and request the Wholesale Market Subcommittee (WMS) and Reliability and Operations Subcommittee (ROS) to determine what data can be released to the market failed via roll call vote. In a subsequent vote, TAC unanimously voted to table NPRR209. On July 1, 2010, the motion to recommend approval of NPRR209 as amended by the May 4, 2010 NRG Texas and Calpine comments failed via roll call vote. TAC then voted to table NPRR209 for one (1) month via roll call vote. On August 5, 2010, TAC unanimously voted to table NPRR209. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR209 as amended by the November 4, 2010 Luminant Energy comments and as revised by TAC.

- **NPRR256 – Synchronize Nodal Protocols with PRR787, Add Non-Compliance Language to QSE Performance Standards (formerly “Add Violation Language to QSE Performance Standards”) [Luminant Energy].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by Zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Partially no opinion on whether or not NPRR256 is necessary prior to the Texas Nodal Market Implementation Date. Grey-boxed language is not necessary prior Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no additional full-time equivalents

needed; no system changes required; no impacts to ERCOT business functions; no impact to grid operations. Due to “Not Needed for Go-Live” designation by the ERCOT CEO for the grey-boxed portions of NPRR256, the Impact Analysis for the grey-boxed language will be conducted at a future date.

**Revision Description:** This NPRR aligns the Nodal Protocols with changes implemented from PRR787, Add Non-Compliance Language to QSE Performance Standards (formerly “Add Violation Language to QSE Performance Standards”), approved by the ERCOT Board on August 18, 2009, and addresses the exclusion of Generation Resource Energy Deployment Performance (GREDP) during testing periods. This NPRR also addresses timing discrepancies in updating Resources’ Ancillary Service Schedule during qualification testing.

**Procedural History:** NPRR256 was posted on July 15, 2010. On July 22, 2010, PRS unanimously voted to table NPRR256. On August 19, 2010, PRS unanimously voted to refer NPRR256 to the Nodal Advisory Task Force (NATF). The Independent Power Marketer (IPM) Market Segment was not present for the vote. On September 23, 2010, PRS voted to recommend approval of NPRR256 as amended by the September 22, 2010 NATF comments and as revised by PRS. There were three (3) abstentions from the Consumer, Independent Generator (IGM) and IPM Market Segments. On October 21, 2010, PRS voted to endorse and forward the September 23, 2010 PRS Report as amended by the September 30, 2010 South Texas Electrical Cooperative (STEC) comments and as revised by PRS and Impact Analysis for NPRR256 to TAC and to recommend a priority of Medium to the grey-boxed language. There were two (2) abstentions from the IPM and Consumer Market Segments. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR256 as amended by the November 1, 2010 ERCOT comments and as revised by TAC and to recommend a priority of Medium to the grey-boxed language.

- **NPRR257 – Synchronization with Nodal Operating Guide Section 9, Monitoring Programs and Changes to Posting Requirements of Documents Considered CEII formerly “Synchronization with Nodal Operating Guide Section 9, Monitoring Programs”) [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Partially necessary prior to the Texas Nodal Market Implementation Date. Grey-boxed language is not necessary prior Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices. Due to “Not Needed for Go-Live” designation by the ERCOT CEO for the grey-boxed portions of NPRR257, the Impact Analysis for the grey-boxed language will be conducted at a future date.

**Revision Description:** This NPRR grey-boxes multiple sections of the Nodal Protocols to align with Nodal Operating Guide Section 9, Monitoring Programs. This NPRR also changes the posting requirement for certain Black Start documents which meet the definition of CEII and removes the requirement for posting Black Start procedures for Resource Entities that have Black Start Agreements with ERCOT since 8.1 is related to



performance monitoring.

**Procedural History:** NPRR257 was posted on July 23, 2010. On August 19, 2010, PRS unanimously voted to refer NPRR257 to NATF. The IPM Market Segment was not present for the vote. On September 23, 2010, PRS voted to recommend approval of NPRR257 as amended by the September 16, 2010 ERCOT comments. There was one (1) opposing vote from the IOU Market Segment and two (2) abstentions from the IGM Market Segment. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report as amended by the October 19, 2010 ERCOT comments and revised Impact Analysis for NPRR257 to TAC and to recommend a priority of High/Medium to the grey-boxed language. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR257 as revised by the November 3, 2010 ERCOT comments and to recommend a priority of High/Medium to the grey-boxed language.

- **NPRR258 – Synchronization with PRR824 and PRR833 and Additional Clarifications [Performance, Disturbance, Compliance Working Group (PDCWG)].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Partially necessary prior to the Texas Nodal Market Implementation Date. Grey-boxed language is not necessary prior Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices. Due to “Not Needed for Go-Live” designation by the ERCOT CEO for the grey-boxed portions of NPRR258, the Impact Analysis for the grey-boxed language will be conducted at a future date.

**Revision Description:** This NPRR synchronizes the Nodal Protocols with PRR824, Primary Frequency Response from WGRs and PRR833, Primary Frequency Response Requirement from Existing WGRs; refines and clarifies the definition of GREDP; moves the definition of Measurable Event to Section 2.1; and proposes a definition for Dead Band as defined in Section 6.2.1.4, Definitions, of the zonal Operating Guides.

**Procedural History:** NPRR258 was posted on July 23, 2010. On August 19, 2010, PRS unanimously voted to refer NPRR258 to the ROS. The IPM Market Segment was not present for the vote. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR258 as amended by the September 22, 2010 PSEG TX comments. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report as revised by PRS and Impact Analysis for NPRR258 to TAC and to recommend a priority of High/Medium to the grey-boxed language. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR258 as amended by the October 27, 2010 ERCOT comments and as revised by TAC and to recommend a priority of High/Medium to the grey-boxed language.

- **NPRR265 – MIS Secure Area Posting of Resource Category – As-Built Clarification [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition



to Nodal Market Protocol Sections.

**CEO Determination:** Necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR accounts for the posting of Resource Categories as a secure extract to the MIS Secure Area in support of calculating Minimum and Maximum Resource Prices in CRR Settlement. This NPRR also adds a definition for “Resource Category.”

**Procedural History:** NPRR265 was posted on August 31, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR265 as amended by the September 17, 2010 Luminant Energy comments. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR265 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR265 as recommended by PRS in the October 21, 2010 PRS Report.

- **NPRR266 – Installed Capacity of Unregistered DG [CPS Energy].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** No opinion on whether or not NPRR266 is necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR clarifies that only the capacity of unregistered DG Resources is totaled for the determination that the DG registration threshold must be lowered.

**Procedural History:** NPRR266 was posted on August 31, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR266 as submitted. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR266 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR266 as recommended by PRS in the October 21, 2010 PRS Report.

- **NPRR267 – Allow ERCOT to Manage Operations Model Pseudo Devices [AEP].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** No opinion on whether or not NPRR267 is necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR will remove any reference to pseudo devices in the Protocols.



**Procedural History:** NPRR267 was posted on August 31, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR267 as revised by PRS. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR267 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR267 as recommended by PRS in the October 21, 2010 PRS Report.

- **NPRR268 – Posting Requirements of Verifiable Costs Documents [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR allows ERCOT to post the Verifiable Cost Manual publicly on the ERCOT website.

**Procedural History:** NPRR268 was posted on September 1, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR268 as submitted. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR268 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR268 as recommended by PRS in the October 21, 2010 PRS Report.

- **NPRR269 – Synchronization of PRR830, Reactive Power Capability Requirement [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR synchronizes the Nodal Protocols with PRR830, Reactive Power Capability Requirement, approved by the ERCOT Board on November 17, 2010. In addition, Nodal Protocol references to Point of Interconnection (POI) are being updated to reflect the defined term where appropriate.

**Procedural History:** NPRR269 was posted on September 9, 2010. On September 23, 2010, PRS voted to recommend approval of NPRR269 as amended by the September 20, 2010 Luminant comments. There was one (1) opposing vote from the (IGM) Market Segment and three (3) abstentions from the Consumer, (IGM) and Independent Retail Electric Provider (IREP) Market Segments. On October 21, 2010, PRS voted to endorse and forward the September 23, 2010 PRS Report as revised by PRS and the Impact Analysis for NPRR269 to TAC. There were four (4) abstentions from the Independent Generator, Consumer, IPM, and IOU Market Segments. On November 4, 2010, TAC voted to recommend approval of NPRR269 as amended by the November 1, 2010 ERCOT comments and as revised by TAC.



There was one (1) opposing vote from the IGM Market Segment.

- **NPRR270 – Defining the Variable Used in the Wind Generation Formula [ERCOT].**  
**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.  
**CEO Determination:** No opinion on whether or not NPRR270 is necessary prior to the Texas Nodal Market Implementation Date.  
**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.  
**Revision Description:** This NPRR inserts variable definitions for the wind adjust formula in the grey-boxed language for Section 11.4.4.2; and changes references of Transmission and/or Distribution Service Provider (TDSP) to Distribution Service Provider (DSP) where appropriate in Section 10.2.2.  
**Procedural History:** NPRR270 was posted on September 13, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR270 as submitted. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR270 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR270 as recommended by PRS in the October 21, 2010 PRS Report.
- **NPRR271 – Synchronization to PRR850, Weather Responsiveness Determination for Interval Data Recorders [ERCOT].**  
**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.  
**CEO Determination:** Necessary prior to the Texas Nodal Market Implementation Date.  
**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no impacts to ERCOT computer systems; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.  
**Revision Description:** This NPRR aligns the Nodal Protocols with zonal Protocols by adding language that limits the applicability of the weather responsiveness test to Interval Data Recorder (IDR) Meters.  
**Procedural History:** NPRR271 was posted on September 13, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR271 as submitted. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR271 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR271 as recommended by PRS in the October 21, 2010 PRS Report.
- **NPRR272 – Definition and Participation of Quick Start Generation Resources [ERCOT].**  
**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.



**CEO Determination:** Partially necessary prior to the Texas Nodal Market Implementation Date. Grey-boxed language is not necessary prior Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** Less than fifty thousand dollars (\$50K); no ERCOT staffing impacts; minor impacts to Settlements and Billing and CSI systems; ERCOT business processes would be revised to accommodate this revision request; no impacts to ERCOT grid operations and practices. Impact Analysis for grey-boxed portion will be conducted at a future date due to “Not Needed for Go-Live” designation by the ERCOT CEO.

**Revision Description:** This NPRR provides language for effective participation of Quick Start Generation Resources (QSGRs) in SCED. Revisions for which implementation is not necessary prior to the Texas Nodal Market Implementation Date are grey-boxed. See also the White Paper entitled “Proposal for Determining Mitigated Cap Variable Operations and Maintenance (O&M) Cost for Quick Start Generation Resources” included with this NPRR submission as an attachment.

**Procedural History:** NPRR272 was posted on September 16, 2010. On September 23, 2010, PRS unanimously voted to table NPRR272 until the October 4, 2010 Special PRS meeting. On October 4, 2010, PRS unanimously voted to table NPRR272 until the October 21, 2010 PRS meeting. On October 21, 2010, PRS voted to recommend approval of NPRR272 as amended by the October 20, 2010 WMS comments and as revised by PRS, to recommend an initial value of two (2) for the “q” variable, to recommend a priority of High for the grey-boxed language, to endorse the White Paper as amended by the October 20, 2010 WMS comments and as revised by PRS, and to forward NPRR272 and the Impact Analysis to TAC. There was one (1) abstention from the Consumer Market Segment. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR272 as amended by the November 3, 2010 ERCOT comments and to recommend a priority of High for the grey-boxed language.

- **NPRR276 – MIS Posting Requirement for the Network Operations Model Load Schedule [ERCOT].**

**Proposed Effective Date:** Upon system implementation.

**CEO Determination:** No opinion on whether or not NPRR276 is necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** Less than fifty thousand dollars (\$50K) – no project required; this NPRR can be implemented within one (1) month of ERCOT Board approval; no ERCOT staffing impacts; impacts to the ERCOT MIS; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR adds a MIS Public Area posting requirement for the database load schedule.

**Procedural History:** NPRR276 was posted on September 16, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR276 as submitted. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR276 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR276 as recommended by PRS in the October 21, 2010 PRS Report.

- **NPRR277 – Removal of NPRR119 Language for LDL Calculation and Modification to**



**the SCED Ramp Rate Calculation (formerly “Removal of NPRR119 Language for LDL Calculation”) [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** Less than fifty thousand dollars (\$50k); no ERCOT staffing impacts; minor system impacts to ERCOT Energy Management System (EMS); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR removes changes that were made to the LDL calculation within the Resource Limit Calculator (RLC) as part of NPRR119, RLC. The language in this NPRR will ensure that a Resource’s dispatch limits are calculated taking into consideration the Resource’s current net MW output and ramp rates. This NPRR also changes the SCED Up and Down Ramp Rate calculation (SURAMP and SDRAMP) to reduce the amount of ramp rate that is reserved for Regulation Service.

**Procedural History:** NPRR277 was posted on September 16, 2010. On September 23, 2010, PRS unanimously voted to recommend approval of NPRR277 as revised by PRS. On October 21, 2010, PRS unanimously voted to endorse and forward the September 23, 2010 PRS Report and Impact Analysis for NPRR277 to TAC. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR277 as amended by the November 3, 2010 ERCOT comments.

- **NPRR278 – EILS Modifications to Correct Self-Provision Settlement Equations, to Accommodate Advanced Metering Infrastructure, and other Clarifications [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** No opinion on whether or not NPRR278 is necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no additional full-time equivalents needed; no system changes required; no impacts to ERCOT business functions; no impact to grid operations.

**Revision Description:** This NPRR proposes several modifications to the Nodal Protocols relating to EILS including correcting a Settlement inequity for QSEs providing EILS through Self-Provision; providing ERCOT with an important option for accommodating EILS Loads potentially consisting of large aggregations of Customers with Advanced Meters; removing the requirement that EILS capacity offers must be submitted in whole MW amounts; and defining a mechanism for ERCOT to reduce the payment for an EILS Load that fails two (2) consecutive Load-shed tests in an EILS Contract Period.

**Procedural History:** NPRR278 was posted on September 16, 2010. On September 23, 2010, PRS voted to table NPRR278. There was one (1) abstention from the IGM Market Segment. On October 21, 2010, PRS unanimously voted to recommend approval of NPRR278 as amended by the October 20, 2010 WMS comments and as revised by PRS and to forward NPRR278 and the Impact Analysis to TAC. On November 4, 2010, TAC voted to recommend approval of NPRR278 as recommended by PRS in the October 21, 2010 PRS Report. There was one (1) opposing vote from the Consumer Market Segment.



- **NPRR281 – Replace Seven-Day (7-Day) Forecast Requirement for QSEs Representing WGRs [AEP].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Not necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** Pending.

**Revision Description:** This NPRR eliminates the requirement that QSEs representing WGRs must provide a seven-day (7-day) forecast in their Current Operating Plan (COP). Instead, for hours 49-168, QSEs representing WGRs shall, using their best estimate enter a High Sustained Limit which may be based on the wind power profile as published on the ERCOT website.

**Procedural History:** NPRR281 was posted on September 27, 2010. On October 21, 2010, PRS voted to recommend approval of NPRR281 as amended by the October 20, 2010 AEP comments and as revised by PRS and to forward NPRR281 to TAC. There was one (1) abstention from the IGM Market Segment. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR281 as recommended by PRS in the October 21, 2010 PRS Report and as revised by TAC.
- **NPRR285 – Replace Generation Resource Base Point Deviation Charge Corrections [WMS].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Partially no opinion on whether or not NPRR285 is necessary prior to the Texas Nodal Market Implementation Date. Grey-boxed language is not necessary prior Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no ERCOT staffing impacts; no system changes required; ERCOT will modify its business processes to implement this NPRR; no impact to grid operations.

**Revision Description:** This NPRR provides that an exception to the Generation Resource Base Point Deviation Charge for any fifteen-minute (15-minute) Settlement Interval which includes a SCED interval that is less than four (4) minutes in duration. Additional changes are proposed to Base Point Deviation Charges for over- and under-generation, to be effective upon system implementation. This NPRR also removes the Base Point Deviation Charge for all Intermittent Renewable Resources (IRRs) until corrections to the Nodal systems can be implemented so that the charge applies to IRRs only when there is clear indication that the Base Point received needs to be followed.

**Procedural History:** NPRR285 was posted on October 13, 2010. On October 21, 2010, PRS voted to recommend approval of NPRR285 as amended by the October 20, 2010 WMS comments and as revised by PRS, to assign a priority of Critical to the grey-boxed language, and to forward NPRR285 to TAC. There was one (1) opposing vote from the IGM Market Segment. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR285 as amended by the October 28, 2010 STEC comments and as revised by TAC and to assign a priority of Critical to the grey-boxed language.



- **NPRR286 – DAM Credit – Non-Business Day Processing [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** Necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** Fifty to one thousand dollars (\$50k - \$100k); will require supplemental staffing to support non-Business Day credit processing; minor impact to Market Management System (MMS); extend ERCOT credit functions into the weekend; no impact to grid operations.

**Revision Description:** This NPRR will allow ERCOT to send Available Credit Limits (ACLs) to Counter-Parties participating in the DAM and to send related collateral requests, as needed, on non-Business Days.

**Procedural History:** NPRR286 was posted on October 14, 2010. On October 21, 2010, PRS voted to recommend approval of NPRR286 as amended by the October 18, 2010 Austin Energy comments and as revised by PRS and to forward NPRR286 and the Impact Analysis to TAC. There was one (1) abstention from the Municipal Market Segment. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR286 as recommended by PRS in the October 21, 2010 PRS Report.
- **NPRR288 – Selection of CRR Load Distribution Factors for Use in CRR Monthly and Annual Auctions [ERCOT].**

**Proposed Effective Date:** Upon the Nodal Protocol Transition Plan’s Texas Nodal Market Implementation Date as prescribed by zonal Protocol Section 21.12, Process for Transition to Nodal Market Protocol Sections.

**CEO Determination:** No opinion on whether or not NPRR288 is necessary prior to the Texas Nodal Market Implementation Date.

**ERCOT Impact Analysis:** No budgetary impact; no additional full-time equivalents needed; no system changes required; no impacts to ERCOT business functions; no impact to grid operations.

**Revision Description:** This NPRR has been created to allow the CRR Auction process to leverage use of this alternative Load distribution factor for monthly CRR Auctions. In this manner, the monthly CRR Auction and DAM are more operationally accurate and aligned. This NPRR also includes a change to Section 7.3 to clarify that the Flowgate Revenue Rights, which ERCOT is required to auction, are those flowgates defined and described in accordance with Section 7.3.1, Flowgates.

**Procedural History:** NPRR288 was posted on October 20, 2010. On October 21, 2010, PRS voted to recommend approval of NPRR288 as submitted and to forward NPRR288 and the Impact Analysis to TAC. There were two (2) abstentions from the Consumer and IPM Market Segments. On November 4, 2010, TAC unanimously voted to recommend approval of NPRR288 as recommended by PRS in the October 21, 2010 PRS Report.

The TAC Reports, Impact Analyses, and CEO Revision Request Reviews for these NPRRs are included in the ERCOT Board meeting materials. In addition, these NPRRs and supporting materials are posted on the ERCOT website at the following link: <http://nodal.ercot.com/protocols/npr/index.html>.



**Key Factors Influencing Issue:**

PRS met, discussed the issues, and submitted reports to TAC regarding the NPRRs described herein. TAC considered the issues and voted to take action on the NPRRs as described above.

**Alternatives:**

1. Approve the TAC recommendation on NPRRs 209, 256, 257, 258, 265, 266, 267, 268, 269, 270, 271, 272, 276, 277, 278, 281, 285, 286, and/or 288, as described above or as modified by the ERCOT Board;
2. Reject the TAC recommendation on NPRRs 209, 256, 257, 258, 265, 266, 267, 268, 269, 270, 271, 272, 276, 277, 278, 281, 285, 286, and/or 288;
3. Defer decision on the TAC recommendation on NPRRs 209, 256, 257, 258, 265, 266, 267, 268, 269, 270, 271, 272, 276, 277, 278, 281, 285, 286, and/or 288; or
4. Remand NPRRs 209, 256, 257, 258, 265, 266, 267, 268, 269, 270, 271, 272, 276, 277, 278, 281, 285, 286, and/or 288 to TAC with instructions.

**Conclusion/Recommendation:**

As more specifically described above, TAC recommends that the ERCOT Board approve NPRRs 209, 256, 257, 258, 265, 266, 267, 268, 269, 270, 271, 272, 276, 277, 278, 281, 285, 286, and 288 as described herein.



**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 approve the following Nodal Protocol Revision Requests (NPRRs):

- NPRR209 – Data Posting Changes to Comply with P.U.C. Subst. R. 25.505
- NPRR256 – Synchronize Nodal Protocols with Protocol Revision Request (PRR) 787, Add Non-Compliance Language to Qualified Scheduling Entity (QSE) Performance Standards (formerly “Add Violation Language to QSE Performance Standards”)
- NPRR257 – Synchronization with Nodal Operating Guide Section 9, Monitoring Programs and Changes to Posting Requirements of Documents Considered Critical Energy Infrastructure Information (CEII) (formerly “Synchronization with Nodal Operating Guide Section 9, Monitoring Programs”)
- NPRR258 – Synchronization with PRR824 and PRR833 and Additional Clarifications
- NPRR265 – Market Information System (MIS) Secure Area Posting of Resource Category – As-Built Clarification
- NPRR266 – Installed Capacity of Unregistered Distributed Generation (DG)
- NPRR267 – Allow ERCOT to Manage Operations Model Pseudo Devices
- NPRR268 – Posting Requirements of Verifiable Costs Documents
- NPRR269 – Synchronization of PRR830, Reactive Power Capability Requirement
- NPRR270 – Defining the Variable Used in the Wind Generation Formula
- NPRR271 – Synchronization to PRR850, Weather Responsiveness Determination for Interval Data Recorders
- NPRR272 – Definition and Participation of Quick Start Generation Resources
- NPRR276 – MIS Posting Requirement for the Network Operations Model Load Schedule
- NPRR277 – Removal of NPRR119 Language for Low Dispatch Limit (LDL) Calculation and Modification to the Security Constrained Economic Dispatch (SCED) Ramp Rate Calculation (formerly “Removal of NPRR119 Language for LDL Calculation”)
- NPRR278 – Emergency Interruptible Load Service (EILS) Modifications to Correct Self-Provision Settlement Equations, to Accommodate Advanced Metering Infrastructure, and other Clarifications
- NPRR281 – Replace Seven-Day (7-Day) Forecast Requirement for QSEs Representing Wind-powered Generation Resources (WGRs) NPRR285, Generation Resource Base Point Deviation Charge Corrections
- NPRR285 – Generation Resource Base Point Deviation Charge Corrections
- NPRR286 – Day-Ahead-Market (DAM) Credit – Non-Business Day Processing
- NPRR288 – Selection of Congestion Revenue Rights (CRR) Load Distribution Factors for Use in CRR Monthly and Annual Auctions

THEREFORE be it RESOLVED, that the Board hereby approves NPRRs 209, 256, 257, 258, 265, 266, 267, 268, 269, 270, 271, 272, 276, 277, 278, 281, 285, 286, and 288.



**CORPORATE SECRETARY'S CERTIFICATE**

I, Bill Magness, Corporate Secretary of ERCOT, do hereby certify that, at its November 16, 2010 meeting, the ERCOT Board passed a motion approving the above Resolution by \_\_\_\_\_.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of November, 2010.

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Bill Magness  
Corporate Secretary