**Section 2:**

NPRR1234 – Interconnection Requirements for Large Loads and Modeling Standards for Loads 25 MW or Greater

This Nodal Protocol Revision Request (NPRR) and the related Planning Guide Revision Request (PGRR) 115, Related to NPRR1234, Interconnection Requirements for Large Loads and Modeling Standards for Loads 25 MW or Greater, establish interconnection and modeling requirements for “Large Loads”—defined in this NPRR to refer to one or more Facilities at a single site with an aggregate peak power Demand of 75 MW or more. Additionally, this NPRR facilitates the addition of a new study process for Large Loads seeking to interconnect to the ERCOT System. This process is described in the accompanying PGRR115. This NPRR also adds a requirement that any Resource Entity that adds 20 MW or more of Load at any site with an existing Generation Resource shall submit a new Reactive Power study. The study must demonstrate the continued compliance of the Generation Resource with Voltage Support Service (VSS) requirements. This NPRR also establishes specific Subsynchronous Oscillation (SSO) requirements for Large Loads and revises and supplements SSO-related definitions, in addition to clarifying existing SSO requirements. Furthermore, although the primary focus of this NPRR is Loads that are 75 MW or larger, this NPRR also establishes new standards for the identification and classification of a site with an aggregate peak Demand of 25 MW or more at a common substation in ERCOT Network Operations Model. Such information will provide ERCOT visibility of the locations of these Loads for operational and planning purposes. Finally, this NPRR adds a fee for Large Load Interconnection Study (LLIS) Requests to the ERCOT Fee Schedule.

Revised Subsections: 2.1 and 2.2

**Section 3:**

NPRR1190 – High Dispatch Limit Override Provision for Increased Load Serving Entity Costs

This Nodal Protocol Revision Request (NPRR) adds a provision for recovery of a demonstrable financial loss arising from a manual High Dispatch Limit (HDL) override to reduce real power output, in the case when that output is intended to meet Qualified Scheduling Entity (QSE) Load obligations.

Revised Subsection: 3.8.1

NPRR1234 – Interconnection Requirements for Large Loads and Modeling Standards for Loads 25 MW or Greater

*See Section 2 above.*

Revised Subsections: 3.1.1, 3.1.5.11, 3.3.2, 3.10.7.2, 3.10.7.5, 3.10.7.5.1, 3.15, 3.15.3, 3.22, 3.22.1, 3.22.1.1, 3.22.1.2, 3.22.1.3, 3.22.1.4 (new), 3.22.1.4, 3.22.2, and 3.22.3 [partially effective upon system implementation]

**Section 4:**

NPRR1268 – RTC – Modification of Ancillary Service Demand Curves

This Nodal Protocol Revision Request (NPRR) defines a methodology for disaggregating the Operating Reserve Demand Curve (ORDC), creating “blended” Ancillary Service Demand Curves (ASDCs).

Revised Subsections: 4.4.12 and 4.5.1 [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

NPRR1269 – RTC+B Three Parameters Policy Issues

This Nodal Protocol Revision Request (NPRR) determines and codifies a group of policy changes: parameters for Ancillary Service proxy offers floors; scaling factor values for ramping; and Ancillary Service Demand Curves (ASDCs) for use in Reliability Unit Commitment (RUC) studies.

Revised Subsection: 4.4.12 [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

**Section 5:**

NPRR1269 – RTC+B Three Parameters Policy Issues

*See Section 4 above.*

Revised Subsection: 5.5.2 [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

**Section 6:**

NPRR1190 – High Dispatch Limit Override Provision for Increased Load Serving Entity Costs

*See Section 3 above.*

Revised Subsection: 6.6.3.6

NPRR1256 – Settlement of MRA of ESRs

This Nodal Protocol Revision Request (NPRR) changes language related to Must-Run Alternatives (MRAs) primarily in grey-boxed language from NPRR885, Must-Run Alternative (MRA) Details and Revisions Resulting from PUCT Project No. 46369, Rulemaking Relating to Reliability Must-Run Service, in order to align the terminology for Energy Storage Resources (ESRs) for the single-model era and specify how Qualified Scheduling Entities (QSEs) representing ESR MRAs would be settled for the provision of MRA Service. The Settlement changes reflect that ESR MRAs would not have fuel costs, but would have costs associated with charging.

Revised Subsections: 6.6.6.7, 6.6.6.9, and 6.6.6.10 [effective upon system implementation and upon system implementation of NPRR885]

NPRR1268 – RTC – Modification of Ancillary Service Demand Curves

*See Section 4 above.*

Revised Subsection: 6.5.7.3 [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

NPRR1269 – RTC+B Three Parameters Policy Issues

*See Section 4 above.*

Revised Subsection: 6.5.7.3 [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

NPRR1270 – Additional Revisions Required for Implementation of RTC

This Nodal Protocol Revision Request (NPRR): Updates requirements for Load Resources that are changing under Real-Time Co-optimization (RTC) and were not updated in earlier revisions; removes language associated with group assignments in the Day-Ahead Market (DAM); deployments are Resource-specific based on Real-Time awards; no requirement to return to service in three hours as that capacity will be replaced with awarded capacity in Real-Time; eliminates the automatic qualification of all Resources to provide On-Line Non-Spinning Reserve (Non-Spin) and Security-Constrained Economic Dispatch (SCED)-dispatchable ERCOT Contingency Reserve Service (ECRS). Resources will be required to undergo a qualification test to provide each of these services; and adds additional pre-processing checks in the SCED process to validate Ancillary Service capability telemetry that are sent by Qualified Scheduling Entities (QSEs).

Revised Subsections: 6.5.5.2, 6.5.7.6.2.3, and 6.5.9.4.2 [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

NPRR1273 – Appropriate Accounting for ESRs in PRC Calculation

This Nodal Protocol Revision Request (NPRR) modifies the capacity from Energy Storage Resources (ESRs) included in the calculation of Physical Responsive Capability (PRC) to be the amount that can be sustained for 45 minutes.

Revised Subsection: 6.5.7.5

**Section 8:**

NPRR1241 – Firm Fuel Supply Service (FFSS) Availability and Hourly Standby Fee

This Nodal Protocol Revision Request (NPRR) provides equity and clarity surrounding the hourly standby fee claw backs for Firm Fuel Supply Service (FFSS) during a Watch for winter weather using a linear curve formula.

Revised Subsection: 8.1.1.2.1.6

NPRR1270 – Additional Revisions Required for Implementation of RTC

*See Section 6 above.*

Revised Subsections: 8.1.1.2.1.3, 8.1.1.2.1.7, and 8.1.1.4.3 [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

**Section 16:**

NPRR1234 – Interconnection Requirements for Large Loads and Modeling Standards for Loads 25 MW or Greater

*See Section 2 above.*

Revised Subsection: 16.5 [effective upon system implementation]

**Section 22:**

NPRR1268 – RTC – Modification of Ancillary Service Demand Curves

*See Section 4 above.*

Revised Attachment: P [effective upon system implementation of PR447, Real-Time Co-Optimization (RTC)]

**ERCOT Fee Schedule:**

NPRR1234 – Interconnection Requirements for Large Loads and Modeling Standards for Loads 25 MW or Greater

*See Section 2 above.*

Revised Subsection: ERCOT Fee Schedule [effective upon system implementation]