



**Date:** August 9, 2011  
**To:** ERCOT Board of Directors  
**From:** Brad Jones, Technical Advisory Committee (TAC) Chair  
**Subject:** Unanimous Revision Requests

**Issue for the ERCOT Board of Directors**

**ERCOT Board of Directors Meeting Date:** August 16, 2011

**Agenda Item No.:** 7a

**Issue:**

Consideration of the following Nodal Protocol Revision Requests (NPRRs), System Change Request (SCR) and Planning Guide Revision Request (PGRR) unanimously recommended for approval by TAC:

- NPRR313 – Revisions to the Resource Plan Reference to Current Operating Plan for Emergency Interruptible Load Service (EILS) and Synchronous Condensers and Black Start Notification Requirements (formerly “Updating the Term Resource Plan to Current Operating Plan”)
- NPRR355 – Adjust the Calculation of the Real-Time Settlement Point Price for a Load Zone
- NPRR356 – Energy Emergency Alert (EEA) Changes Related to Dispatch Instructions and Block Load Transfers (BLTs)
- NPRR359 – Monthly Transmission and/or Distribution Provider (TDSP) Load Report
- NPRR361 – Real-Time Wind Power Production Data Transparency
- NPRR362 – Changes to Physical Responsive Capability (PRC) Calculation
- NPRR369 – Black Start Service Requirement Revisions – URGENT
- NPRR388 – Clarification of Quick Start Generation Resource Performance Criteria – URGENT
- NPRR390 – Clarification of the Applicability of the Use of the Refund Option – URGENT
- NPRR392 – Credit Review during Congestion Revenue Rights (CRR) Auction – URGENT
- SCR766 – Load Zone and Hub Locational Marginal Pricing (LMPs) Distributed by Inter-Control Center Communications Protocol (ICCP)
- PGRR005 – New Planning Guide Section 4, Transmission Planning Criteria (formerly “New” Planning Guide Section 5, Planning Criteria”)

**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.

**NPRRs:**

- **NPRR313 – Revision to the Resource Plan Reference to Current Operating Plan for EILS and Synchronous Condensers and Black Start Notification Requirements (formerly “Updating the Term Resource Plan to Current Operating Plan”) [Luminant].**

**Proposed Effective Date:** Upon System Implementation – Priority High; Rank 30.

**ERCOT Impact Analysis:** \$80 to 85k; no impacts to ERCOT staffing; impacts to Market Management System (MMS), Web Applications (WA), Settlements & Billing (S&B), and Enterprise Information Services (EIS); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR replaces the term “Resource Plan” with the term “Current Operating Plan” or “Availability Plan” in those instances where the change in terminology was not previously made. This NPRR also proposes adding a Black Start capable status indicator to the Availability Plan to allow ERCOT to settle payment for Black Start units programmatically; and also allows Qualified Scheduling Entities (QSEs) with Black Start units to provide all of the Black Start availability through the Availability Plan.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of NPRR313 as recommended in the June 23, 2011 Protocol Revision Subcommittee (PRS) Report.

- **NPRR355 – Adjust the Calculation of the Real-Time Settlement Point Price for a Load Zone [ERCOT].**

**Proposed Effective Date:** Upon System Implementation – Priority High; Rank 32.

**ERCOT Impact Analysis:** \$60 to 75k; no impacts to ERCOT staffing; impacts to MMS, Commercial Systems Integration (CSI), S&B, Current Day Reports (CDR), and EIS; no impacts to ERCOT business function; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR removes the energy-weighting in the current calculation for the Real-Time Settlement Point Price (RTSPP) for a Load Zone. It also adds a new RTSPP for a Load Zone that is energy-weighted (Real-Time Settlement Point Price Energy-Weighted (RTSPPEW)) and adjusts the appropriate formulas that use these prices. This NPRR also corrects the Real-Time Price for the Energy Metered for each Resource meter at bus (RTRMPR<sub>b</sub>) in the event that the Energy at bus near Real-Time (EBNRT) is less than or equal to zero.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of NPRR355 as recommended by PRS in the June 23, 2011 PRS Report.

- **NPRR356 – EEA Changes Related to Dispatch Instructions and BLTs [ERCOT].**

**Proposed Effective Date:** September 1, 2011.

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

**Revision Description:** This NPRR changes the need to issue Dispatch Instructions to suspend any ongoing ERCOT-required generating unit or Resource performance testing and moves the requirement to inquire about the availability of BLTs from EEA Level 2A to EEA Level 2B.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of NPRR356 as recommended by PRS in the June 23, 2011 PRS Report.

- **NPRR359 – Monthly TDSP Load Report [Market Information System User Group (MISUG)].**

**Proposed Effective Date:** Upon System Implementation – Priority High; Rank 33.

**ERCOT Impact Analysis:** \$15 to 20k; no impacts to ERCOT staffing; impacts to EIS and

Market Information System (MIS); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR creates a new secure report to provide aggregate Load data for Transmission Service Providers (TSPs) and Distribution Service Providers (DSPs) in a monthly posting.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of NPRR359 as recommended by PRS in the June 23, 2011 PRS Report.

- **NPRR361 – Real-Time Wind Power Production Data Transparency [MISUG].**

**Proposed Effective Date:** Upon System Implementation – Priority High; Rank 34.

**ERCOT Impact Analysis:** \$10 to 15k; no impacts to ERCOT staffing; impacts to CDR and MIS; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

**Revision Description:** This NPRR adds a new public report to be posted every five (5) minutes that provides, on both a system-wide and regional basis (west and north, south and Houston, are the two (2) regions), the five (5)-minute actual wind power production for a rolling historical 60-minute period; and changes the existing hourly report for Actual and Forecast Regional Wind Report to provide the following information on both a system-wide and regional basis: Aggregate Wind-powered Generation Resource (WGR) Power Output, Aggregate Short-term Wind Power Forecast (STWPF), Aggregate Wind-powered Generation Resource Production Potential (WGRPP), and Aggregate Current Operating Plan (COP) High Sustained Limits (HSLs) for On-Line WGRs.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of NPRR361 as recommended by PRS in the June 23, 2011 PRS Report.

- **NPRR362 – Changes to PRC Calculation [ERCOT].**

**Proposed Effective Date:** September 1, 2011.

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

**Revision Description:** This NPRR aligns the Protocols with the current systems. The proposed changes properly reflect the current Responsive Reserve (RRS) which is supplied from Load Resources into the PRC calculation. This NPRR also deletes the method for calculating the PRC from EEA Levels 1 and 2.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of NPRR362 as amended by the June 29, 2011 ERCOT comments.

- **NPRR369 – Black Start Service Requirement Revisions [ERCOT] – URGENT.**

**Proposed Effective Date:** September 1, 2011.

**ERCOT Impact Analysis:** No budgetary impact; no impacts to ERCOT staffing; no impact 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 conduct quarterly testing of Black Start Resources and further proposes language changes that would allow a Resource Entity representing a contracted Black Start Resource to request that an alternate Generation Resource be substituted in place of the Black Start Resource if the alternate Generation

Resource meets testing and verification under established qualification criteria to ensure Black Start Service (BSS).

**TAC Decision:** On August 4, 2011, TAC unanimously voted to recommend approval of NPRR369 as amended by the July 28, 2011 ERCOT comments.

- **NPRR388 – Clarification of Quick Start Generation Resource (QSGR) Performance Criteria [Luminant] – URGENT.**

**Proposed Effective Date:** September 1, 2011.

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

**Revision Description:** This NPRR clarifies the requirements regarding the performance criteria of a QSGR during a Security-Constrained Economic Dispatch (SCED) deployment.

**TAC Decision:** On August 4, 2011 TAC unanimously voted to recommend approval of NPRR388 as recommended by PRS in the July 21, 2011 PRS Report.

- **NPRR390 – Clarification of the Applicability of the Use of the Refund Option [ERCOT] – URGENT.**

**Proposed Effective Date:** September 1, 2011.

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

**Revision Description:** This NPRR clarifies the ability to request refund option Pre-Assigned Congestion Revenue Rights (PCRRs) across high voltage Direct Current Ties (DC Ties).

**TAC Decision:** On August 4, 2011, TAC unanimously voted to recommend approval of NPRR390 as recommended by PRS in the July 21, 2011 PRS Report.

- **NPRR392 – Credit Review during CRR Auction [ERCOT] – URGENT.**

**Proposed Effective Date:** September 1, 2011.

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

**Revision Description:** This NPRR provides for a credit review on preliminary CRR Auction results before CRR Auction results are finalized and posted to ensure that post auction collateral requirements under Section 16, Registration and Qualification of Market Participants, for the proposed CRR awards are within a Counter-Party's Available Credit Limit (ACL).

**TAC Decision:** On August 4, 2011, TAC unanimously voted to recommend approval of NPRR392 as recommended by PRS in the July 21, 2011 PRS Report. Positive credit impacts.

SCR:

- **SCR766 – Load Zone and Hub LMPs Distributed by ICCP (formerly “Load Zone Price Distributed by ICCP”) [Wholesale Market Subcommittee (WMS)].**

**Proposed Effective Date:** Upon System Implementation – Priority High; Rank 40.



**ERCOT Impact Analysis:** \$13 to 15k; no impacts to ERCOT staffing; impacts to MMS and Energy Management System (EMS); no impacts to ERCOT business functions; ICCP handbook will be updated.

**Revision Description:** This SCR allows the price data to be transferred to the EMS for distribution over ICCP links, as soon as the five-minute Load Zone and Hub prices are calculated in Real-Time.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of SCR766 as recommended by PRS in the June 23, 2011 PRS Report. Credit review not applicable.

Planning Guide Revision Request (PGRR):

- **PGRR005 – New Planning Guide Section 4, Transmission Planning Criteria (formerly “New Planning Guide Section 5, Planning Criteria”) [Planning Working Group (PLWG)].**

**Proposed Effective Date:** September 1, 2011.

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

**Revision Description:** This PGRR adds new Section 6.5 to the Planning Guide, moving existing Nodal Operating Guide and Annual Load Data Request (ALDR) Procedure language into the Planning Guide.

**TAC Decision:** On July 7, 2011, TAC unanimously voted to recommend approval of PGRR005 as amended by the June 30, 2011 ERCOT comments and as revised by TAC. Credit review not applicable.

The TAC Reports, Impact Analyses, and Cost Benefit Analyses (if applicable) for these Revision Requests are included in the ERCOT Board meeting materials which can found at the following link: <http://www.ercot.com/calendar/2011/08/20110816-BOD>.

In addition, these Revision Requests and supporting materials are posted on the ERCOT website at the following links:

<http://www.ercot.com/mktrules/nprotocols/npr>

<http://www.ercot.com/mktrules/syschangereq/scrs>

<http://www.ercot.com/mktrules/guides/planning/pgrr>

**Key Factors Influencing Issue:**

PRS met, discussed the issues, and submitted reports to TAC regarding NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; and SCR766 described herein. TAC considered the issues and voted to take action on NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; and SCR766 as described above.

The Reliability and Operations Subcommittee (ROS) met, discussed the issues, and submitted a report to TAC regarding PGRR005 described herein. TAC considered the issues and voted to take action on PGRR005 as described above.

**Alternatives:**

1. Approve the TAC recommendation on NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; SCR766; and/or PGRR005, as described above or as modified by the ERCOT Board;
2. Reject the TAC recommendation on NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; SCR766; and/or PGRR005;
3. Defer decision on the TAC recommendation on NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; SCR766; and/or PGRR005; or
4. Remand NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; SCR766; and/or PGRR005 to TAC with instructions.

**Conclusion/Recommendation:**

As more specifically described above, TAC recommends that the ERCOT Board approve NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; SCR766; and PGRR005 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), System Change Request (SCR) and Planning Guide Revision Request (PGRR) unanimously recommended for approval by TAC:

- NPRR313 – Revisions to the Resource Plan Reference to Current Operating Plan for Emergency Interruptible Load Service (EILS) and Synchronous Condensers and Black Start Notification Requirements (formerly “Updating the Term Resource Plan to Current Operating Plan”)
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- NPRR392 – Credit Review during Congestion Revenue Rights (CRR) Auction – URGENT
- SCR766 – Load Zone and Hub Locational Marginal Pricing (LMPs) Distributed by Inter-Control Center Communications Protocol (ICCP)
- PGRR005 – New Planning Guide Section 4, Transmission Planning Criteria (formerly “New” Planning Guide Section 5, Planning Criteria”)

THEREFORE, BE IT RESOLVED, that the ERCOT Board hereby approves NPRRs 313, 355, 356, 359, 361, 362, 369, 388, 390, 392; SCR766; and PGRR005.

**CORPORATE SECRETARY’S CERTIFICATE**

I, Bill Magness, Corporate Secretary of ERCOT, do hereby certify that, at its August 16, 2011 meeting, the ERCOT Board passed a motion approving the above Resolution by \_\_\_\_\_.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of August, 2011.

\_\_\_\_\_  
Bill Magness  
Corporate Secretary