



Date: July 12, 2011
To: ERCOT Board of Directors
From: Brad Jones, Technical Advisory Committee (TAC) Chair
Subject: Unanimous Revision Requests: Nodal Protocol Revision Requests (NPRRs); System Change Requests (SCRs); and, a Planning Guide Revision Request (PGRR)

Issue for the ERCOT Board of Directors

ERCOT Board of Directors (ERCOT Board) Meeting Date: July 19, 2011

Agenda Item No.: 6a

Issue:

Consideration of the following Revision Requests unanimously recommended for approval by TAC:

- NPRR314 – Requirement to Post Generation Resources Temporal Constraints
- NPRR319 – Required Documentation to Recover Fuel Costs for Reliability Unit Commitment (RUC) Deployments
- NPRR324 – Conductor/Transformer Transmission Facility Rating
- NPRR328 – Clarifies Duplicative or Vague Requirements Related to Reactive Resources (formerly “Removes ERCOT Requirement for Reactive Resource Planning and the Associated Compliance Process”)
- NPRR332 – Revise Quick Start Generation Resource (QSGR) Processes for Current Operating Plan (COP) Reporting of QSGR Assigned Off-Line Non-Spinning Reserve (Non-Spin) and Application of Emergency Operations Settlement
- NPRR333 – Removal of Redundant Reporting Requirement Related to Equipment Ratings
- NPRR337 – Correct Section Reference in Section 1.3.1.1 Pertaining To Protected Information of Direct Current (DC) Ties
- NPRR338 – Modifications to Support Revenue Neutrality
- NPRR344 – Define Reliability Must Run (RMR) Fuel Adder
- NPRR346 – Modifications to Support Revenue Neutrality
- NPRR376 – Congestion Revenue Right (CRR) Volume Limitation Enhancements – Urgent
- NPRR387 – Hydro Responsive Reserves (RRS) Deployment Under Frequency Relay Set Point – Urgent
- Impact Assessment, NPRR258 – Synchronization with Protocol Revision Request (PRR) 824 and PRR833 and Additional Clarifications
- SCR761 – Provide Price Republication Notifications via Application Programming Interface (API) and Provide Price Corrections via Extensible Markup Language (XML)
- SCR762 – Enable a Single Step Cancel/Resubmit of Trades
- SCR763 – Modify COP Validation Rule for RRS
- PGRR006 – New Planning Guide Section 6.5, Annual Load Data Request

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.

Nodal Protocol Revision Requests (NPRRs):

- **NPRR314 – Requirement to Post Generation Resources Temporal Constraints [Luminant].**

Proposed Effective Date: Upon System Implementation – Priority High; Rank 15.4.

ERCOT Impact Analysis: \$32 to 39k; no impacts to ERCOT staffing; impacts to Market Management System (MMS), Current Day Reports (CDR), Market Information System (MIS), and Enterprise Information System (EIS); no impacts to ERCOT business functions, no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR adds language to specify the need for ERCOT to post to the MIS Certified Area the current time since a Generation Resource last went Off-Line (in hours) and the corresponding startup time ERCOT is using for of all Off-Line Generation Resources which may be considered in any RUC process.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR314 as recommended by the Protocol Revision Subcommittee (PRS) in the May 19, 2011 PRS Report.

- **NPRR319 – Required Documentation to Recover Fuel Costs for RUC Deployments [ERCOT].**

Proposed Effective Date: August 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 what type of documentation Qualified Scheduling Entities (QSEs) must submit to ERCOT as proof of natural gas purchases when requesting additional compensation for fuel costs incurred when providing RUC services. The NPRR further clarifies which documents are deemed acceptable as proof of fuel purchases and directs QSEs to request ERCOT Board approval for documentation not covered by the Nodal Protocols.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR319 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR324 – Conductor/Transformer Transmission Facility Rating [ERCOT].**

Proposed Effective Date: August 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 adds the Conductor/Transformer Rating, normally used for Rate C in the Annual Planning Model, as a fourth Transmission Facility Rating and adds the description from the Operating Guides to the Rating terms definitions in the Nodal Protocols.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR324 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR328 – Clarifies Duplicative or Vague Requirements Related to Reactive Resources (Formerly “Removes ERCOT Requirement For Reactive Resource Planning and the Associated Compliance Process”) [ERCOT].**

Proposed Effective Date: August 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 removes or clarifies duplicate or vague requirements related to reactive Resources.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR328 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR332 – Revise QSGR Processes for COP Reporting of QSGR Assigned Off-Line Non-Spin and Application of Emergency Operations Settlement [ERCOT].**

Proposed Effective Date: August 1, 2011.

ERCOT Impact Analysis: Less than \$5k; no impacts to ERCOT staffing; no impact to ERCOT computer systems; update to ERCOT Operations and Settlements business procedures; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR clarifies the COP reporting requirements for a QSGR that is providing Off-Line Non-Spin Service in an amount that is greater than the High Sustained Limit (HSL) minus Low Sustained Limit (LSL); and removes the requirement for a QSE to contact the ERCOT Operator to request a “manual override” when a QSGR it represents is first deployed by Security-Constrained Economic Dispatch (SCED) from a zero Base Point to a Base Point that is less than the QSGR’s physical LSL.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR332 as recommended by PRS in the May 19, 2011 PRS Report and as revised by TAC.

- **NPRR333 – Removal of Redundant Reporting Requirement Related to Equipment Ratings [ERCOT].**

Proposed Effective Date: August 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 removes a redundant requirement for ERCOT to produce a report regarding equipment Ratings.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR333 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR337 – Correct Section Reference in Section 1.3.1.1 Pertaining To Protected Information of DC Ties [ERCOT].**

Proposed Effective Date: August 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 Nodal Protocols with the zonal Protocols by correcting the section reference in Section 1.3.1.1 to reflect the actual section that contains the DC Tie Schedule Information that is considered Protected Information.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR337 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR338 – Modifications to Support Revenue Neutrality [ERCOT].**

Proposed Effective Date: Upon System Implementation – Priority High; Rank 21.

ERCOT Impact Analysis: \$4 to 5k; no impacts to ERCOT staffing; impacts to Settlement

& Billing (S&B); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR deducts the amount collected for the shortfall charges for CRR Owners from the amount received on all Real-Time Market (RTM) Invoices prior to prorating the payout to the RTM Invoice Recipients. It also adds language to allow ERCOT to resettle the Day-Ahead Market (DAM) in the event that a DAM Settlement error, which does not otherwise meet the Protocol requirements for resettlement, will impact ERCOT's ability to achieve revenue neutrality.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR338 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR344 – Define RMR Fuel Adder [ERCOT].**

Proposed Effective Date: August 1, 2011.

ERCOT Impact Analysis: No budgetary impact; no impacts to ERCOT staffing; no impact to ERCOT computer systems; business process impacts to ERCOT Settlement and Billing group; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR defines the term “fuel adder” as reported by Resource Entities when filing RMR contracts. The NPRR also clarifies that the fuel adder will be true-up to reflect actual fuel costs incurred.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR344 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR346 – Removal of Redundant Posting Requirement Related to Electrical Bus Changes [ERCOT].**

Proposed Effective Date: Upon System Implementation – Priority High; Rank 22.

ERCOT Impact Analysis: Less than \$2.5k; no impacts to ERCOT staffing; impacts to MIS; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR removes a redundant requirement for ERCOT to produce a report regarding Electrical Bus changes.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of NPRR346 as recommended by PRS in the May 19, 2011 PRS Report.

- **NPRR376 – CRR Volume Limitation Enhancements [DC Energy] - URGENT.**

Proposed Effective Date: Upon System Implementation – Priority Critical; Rank 9.46.

ERCOT Impact Analysis: \$50 to 55k; no impacts to ERCOT staffing; impacts to CRR and EIS; CRR business processes will be updated; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR establishes that CRR Account Holders are not included in the CRR transaction volume limitation process if they do not own open CRR positions or have credit allocated to the CRR Auction; and also expands ERCOT's requirement to notify CRR Account Holders about issues pertaining to the transaction limitation.

TAC Decision: On July 7, 2011, TAC unanimously voted to recommend approval of NPRR376 as recommended by PRS in the June 23, 2011 PRS Report and as revised by TAC with a recommended priority of Critical and rank of 9.46.

- **NPRR387 – Hydro RRS Deployment Under Frequency Relay Set Point [LCRA] - URGENT.**

Proposed Effective Date: August 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 that for hydro Generation Resources operating in the synchronous condenser fast-response mode to provide RRS, the initiation setting of the automatic under frequency relay setting shall not be lower than 59.80 Hz; includes language to address the instances when a hydro Generation Resource operating in synchronous condenser fast-response mode is triggered by an under frequency relay device without a corresponding RRS deployment by ERCOT; and is the companion NPRR to Nodal Operating Guide Revision Request (NOGRR) 068, Hydro-Responsive Reserve.

TAC Decision: On July 7, 2011, TAC unanimously voted to recommend approval of NPRR387 as recommended by PRS in the June 23, 2011 PRS Report.

Parking Deck NPRR – Impact Assessment:

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

Effective Date: Upon System Implementation – Priority Critical; Rank 8.5.

ERCOT Impact Analysis: \$55 to 60k; no ERCOT staffing impacts; impacts to EMS; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR synchronizes the Nodal Protocols with PRR824, Primary Frequency Response from Wind-powered Generation Resources (WGRs), and PRR833, Primary Frequency Response Requirement from Existing WGRs; refines and clarifies the definition of Generation Resource Energy Deployment Performance (GREDP); moves the definition of Measurable Event to Section 2.1, Definitions; and adds a definition for Dead Band.

TAC Decision: On July 7, 2011, TAC unanimously voted to recommend approval of the impact assessment for NPRR258 as recommended by PRS in the June 23, 2011 PRS Report – Impact Assessment.

System Change Requests (SCRs):

- **SCR761 – Provide Price Republication Notifications via API and Provide Price Corrections via XML [DTE Energy].**

Proposed Effective Date: Upon System Implementation – Priority High; Rank 12.78.

ERCOT Impact Analysis: \$50 to 63k; no impacts to ERCOT staffing; impacts to CDR, MIS, ERCOT.com, and MMS; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

Revision Description: This SCR requires ERCOT to provide API notification of all republished corrected prices; and always publish all price corrections in XML format using the same XML Schema Definition (XSD) that it is using for the regular price publication.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of SCR761 as recommended by PRS in the May 19, 2011 PRS Report. Credit review not applicable.

- **SCR762 – Enable a Single Step Cancel/Resubmit of Trades [ERCOT].**

Proposed Effective Date: Upon System Implementation – Priority High; Rank 12.77.

ERCOT Impact Analysis: \$25 to 30k; no impacts to ERCOT staffing; impacts to MMS; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

Revision Description: This SCR modifies the MMS such that submission of a trade that has already been confirmed causes the confirmed trade to be overwritten by the new submission and marked as unconfirmed.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of SCR762 as recommended by PRS in the May 19, 2011 PRS Report. Credit review not applicable.

- **SCR763 – Modify COP Validation Rule for RRS [ERCOT].**

Proposed Effective Date: Upon System Implementation – Priority High; Rank 12.79.

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

Revision Description: This SCR modifies the existing COP validation to use the highest Emergency Ramp Rate value from the registered Emergency Ramp Rate curve as an input to the COP validation check of RRS responsibility.

TAC Decision: On June 2, 2011, TAC unanimously voted to recommend approval of SCR763 as recommended by PRS in the May 19, 2011 PRS Report. Credit review not applicable.

Planning Guide Revision Request (PGRR):

- **PGRR006 – New Planning Guide Section 6.5, Annual Load Data Request [Planning Working Group (PLWG)].**

Proposed Effective Date: August 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 June 2, 2011, TAC unanimously voted to recommend approval of PGRR006 as revised by the May 31, 2011 PLWG comments. 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 on the following link: <http://www.ercot.com/calendar/2011/07/20110719-BOD>.

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

<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 258 (Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; and SCRs 761, 762, 763 described herein. TAC considered the issues and voted to take action on NPRRs 258



(Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; and SCRs 761, 762, 763 as described above.

The Reliability and Operations Subcommittee (ROS) met, discussed the issues, and submitted a report to TAC regarding PGRR006 described herein. TAC considered the issues and voted to take action on PGRR006 as described above.

Alternatives:

1. Approve the TAC recommendation on NPRRs 258 (Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; SCRs 761, 762, 763; and/or PGRR006, as described above or as modified by the ERCOT Board;
2. Reject the TAC recommendation on NPRRs 258 (Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; SCRs 761, 762, 763; and/or PGRR006;
3. Defer decision on the TAC recommendation on NPRRs 258 (Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; SCRs 761, 762, 763; and/or PGRR006; or
4. Remand NPRRs 258 (Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; SCRs 761, 762, 763; and/or PGRR006 to TAC with instructions.

Conclusion/Recommendation:

As more specifically described above, TAC recommends that the ERCOT Board approve NPRRs 258 (Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; SCRs 761, 762, 763; and PGRR006 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 NPRRs:

- NPRR314 – Requirement to Post Generation Resources Temporal Constraints
- NPRR319 – Required Documentation to Recover Fuel Costs for Reliability Unit Commitment (RUC) Deployments
- NPRR324 – Conductor/Transformer Transmission Facility Rating
- NPRR328 – Clarifies Duplicative or Vague Requirements Related to Reactive Resources (formerly “Removes ERCOT Requirement for Reactive Resource Planning and the Associated Compliance Process”)
- NPRR332 – Revise Quick Start Generation Resource (QSGR) Processes for Current Operating Plan (COP) Reporting of QSGR Assigned Off-Line Non-Spinning Reserve (Non-Spin) and Application of Emergency Operations Settlement
- NPRR333 – Removal of Redundant Reporting Requirement Related to Equipment Ratings
- NPRR337 – Correct Section Reference in Section 1.3.1.1 Pertaining To Protected Information of Direct Current (DC) Ties
- NPRR338 – Modifications to Support Revenue Neutrality
- NPRR344 – Define Reliability Must Run (RMR) Fuel Adder
- NPRR346 – Modifications to Support Revenue Neutrality
- NPRR376 – Congestion Revenue Right (CRR) Volume Limitation Enhancements – Urgent
- NPRR387 – Hydro Responsive Reserves (RRS) Deployment Under Frequency Relay Set Point – Urgent
- Impact Assessment, NPRR258 – Synchronization with Protocol Revision Request (PRR) 824 and PRR833 and Additional Clarifications
- SCR761 – Provide Price Republication Notifications via Application Programming Interface (API) and Provide Price Corrections via Extensible Markup Language (XML)
- SCR762 – Enable a Single Step Cancel/Resubmit of Trades
- SCR763 – Modify COP Validation Rule for RRS
- PGRR006 – New Planning Guide Section 6.5, Annual Load Data Request

THEREFORE be it RESOLVED, that the ERCOT Board hereby approves NPRRs 258 (Impact Assessment), 314, 319, 324, 328, 332, 333, 337, 338, 344, 346, 376, 387; SCR 761, 762, 763; and PGRR006.



CORPORATE SECRETARY'S CERTIFICATE

I, Bill Magness, Corporate Secretary of ERCOT, do hereby certify that, at its July 19, 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 July, 2011.

Bill Magness
Corporate Secretary