

Date: February 4, 2014
To: ERCOT Board of Directors
From: Randa Stephenson, Technical Advisory Committee (TAC) Chair
Subject: Unopposed Revision Requests

Issue for the ERCOT Board of Directors

ERCOT Board of Directors (ERCOT Board) Meeting Date: February 11, 2014

Agenda Item No.: 6.1

Issue:

Consideration of the following Revision Requests recommended for approval by TAC (with no opposing votes recorded):

- NPRR503, Removal of Language Related to NPRR219
- NPRR556, Resource Adequacy During Transmission Equipment Outage – URGENT
- NPRR563, Credit Lock Standards
- NPRR567, Stakeholder Review of Resource Registration Data Requirements
- NPRR569, Retail Clarification and Cleanup
- NPRR573, Alignment of PRC Calculation
- NPRR577, As-Built Clarification for Portion of WGR Group GREDP Evaluation
- NPRR580, Establishment of a Rolling CRR Balancing Account Fund
- NPRR581, Add Fast Responding Regulation Service as a Subset of Regulation Service
- NPRR591, As-Built Clarification and Corrections Related to NPRR568 and NPRR555 – URGENT
- SCR774, Enhancement to Outage Scheduler and Reports
- SCR777, Bilateral CRR Interface Enhancement
- SCR778, Exposure Calculations for NOIE Options Linked to RTM PTP Obligations
- PGRR032, Stakeholder Review of Resource Registration Data Requirements
- PGRR033, Dynamics Flat Start Cases Preparation

Background/History:

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

- ***NPRR503, Removal of Language Related to NPRR219 [Network Data Support Working Group (NDSWG)].***

Revision Description: This Nodal Protocol Revision Request (NPRR) removes two grey-boxes associated with NPRR219, Resolution of Alignment Items A33, A92, A106, and A150 - TSPs Must Submit Outages for Resource Owned Equipment and Clarification of Changes in Status of Transmission Element Postings.

Proposed Effective Date: March 1, 2014

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.

ERCOT Opinion: ERCOT supports approval of NPRR503 as it eliminates the requirement to develop, implement, and maintain a report of limited value.

TAC Decision: On 1/28/14, TAC voted to recommend approval of NPRR503 as recommended by PRS in the 1/16/14 PRS Report. There was one abstention from the Independent Generator Market Segment.

- ***NPRR556, Resource Adequacy During Transmission Equipment Outage [Tenaska] - URGENT.***

Revision Description: This NPRR adds a requirement for the Network Operations Model so that Resources that are being served by temporary equipment can participate in the ERCOT market as in normal operations.

Proposed Effective Date: Upon System Implementation – Priority 2014; Rank 1080

ERCOT Impact Analysis: \$65k - \$95k; no impacts to ERCOT staffing; impacts to the Market Management System (MMS); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports NPRR556 as it appropriately allows Load Resources to continue to participate in the market when outages would otherwise prevent their participation due to known limitations of the network model.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of NPRR556 as recommended by PRS in the 1/16/14 PRS Report.

- ***NPRR563, Credit Lock Standards [Morgan Stanley].***

Revision Description: This NPRR removes ERCOT's discretion to allow Counter-Parties participating in a Congestion Revenue Right (CRR) Auction to post credit past the end of the CRR bid submission window.

Proposed Effective Date: March 1, 2014

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.

ERCOT Opinion: ERCOT supports NPRR563 as it clarifies the treatment of Market Participants with regard to their adherence to credit lock standards.

TAC Decision: On 12/3/13, TAC unanimously voted to recommend approval of NPRR563 as recommended by PRS in the 11/21/13 PRS Report.

- ***NPRR567, Stakeholder Review of Resource Registration Data Requirements [Resource Data Working Group (RDWG)].***

Revision Description: This NPRR describes the process for review and approval of changes, additions or deletions to the required Resource Registration data; and defines a new term "Resource Registration" to ensure consistency when referencing Resource data throughout the Protocols, Planning Guides, and Other Binding Documents.

Proposed Effective Date: March 1, 2014

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.

ERCOT Opinion: ERCOT supports approval of NPRR567 as it aligns the Protocols with the process defined in the Resource Registration Glossary for revising data fields that may be required from Resources as part of the Resource Registration process.

TAC Decision: On 12/3/13, TAC unanimously voted to recommend approval of NPRR567 as recommended by PRS in the 11/21/13 PRS Report, as amended by the 11/26/13 ERCOT comments and as revised by TAC.

- ***NPRR569, Retail Clarification and Cleanup [ERCOT].***

Revision Description: This NPRR provides clarification and cleanup of current retail processes.

Proposed Effective Date: March 1, 2014

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.

ERCOT Opinion: ERCOT supports approval of NPRR569.

TAC Decision: On 12/3/13, TAC unanimously voted to recommend approval of NPRR569 as recommended by PRS in the 11/21/13 PRS Report.

- ***NPRR573, Alignment of PRC Calculation [ERCOT].***

Revision Description: This NPRR aligns the Protocols with the current calculation used in the EMS to calculate Physical Responsive Capability (PRC), and adds capacity from Primary Frequency Response-capable Wind-powered Generation Resources (WGRs) to PRC.

Proposed Effective Date: March 1, 2014 for revisions to PRC₁; Upon System Implementation for addition of new PRC₂ – Priority 2014; Rank 1050.

ERCOT Impact Analysis: \$20k - \$40k; no impacts to ERCOT staffing; impacts to Energy Management System (EMS); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports approval of NPRR573.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of NPRR573 as recommended by PRS in the 12/19/13 PRS Report.

- ***NPRR577, As-Built Clarification for Portion of WGR Group GREDP Evaluation [ERCOT].***

Revision Description: NPRR425, Creation of a WGR Group for GREDP and Base Point Deviation Evaluation and Mixing Turbine Types Within a WGR, which was approved by the ERCOT Board on 11/2/2011 and is currently pending implementation, revised the Protocols to allow WGRs meeting certain registration requirements to be evaluated for Generation Resource Energy Deployment Performance (GREDP) as groups of WGRs rather than individual WGRs. This NPRR clarifies that certain components of the GREDP report for WGRs will be evaluated at the WGR-level, rather than the WGR Group-level.

Proposed Effective Date: March 1, 2014

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.

ERCOT Opinion: ERCOT supports approval of NPRR577.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of NPRR577 as recommended by PRS in the 12/19/13 PRS Report.

- ***NPRR580, Establishment of a Rolling CRR Balancing Account Fund [ERCOT].***

Revision Description: This NPRR establishes a rolling Balancing Account Fund.

Proposed Effective Date: Upon System Implementation – Priority 2014; Rank 1060.

ERCOT Impact Analysis: \$100k - \$125k; no impacts to ERCOT staffing; impacts to Settlements & Billing (S&B) and Enterprise Information Services (EIS); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports approval of NPRR580.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of NPRR580 as recommended by PRS in the 12/19/13 PRS Report.

- ***NPRR581, Add Fast Responding Regulation Service as a Subset of Regulation Service [ERCOT].***

Revision Description: This NPRR defines “Fast Responding Regulation Service (FRRS)” and specifies that FRRS is a subset of Regulation Service; includes the necessary clarifications for the qualification, operation and performance monitoring of Resources providing FRRS; and specifies a maximum amount of Regulation Service for each hour that can be provided by Resources providing FRRS.

Proposed Effective Date: March 1, 2014 (for manual workaround); Upon System Implementation (for automated solution) – Priority 2014; Rank 1090.

ERCOT Impact Analysis: \$20k - \$35k; no impacts to ERCOT staffing; impacts to EMS and EIS; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports approval of NPRR581.

TAC Decision: On 1/28/14, TAC voted to recommend approval of NPRR581 as recommended by PRS in the 1/16/14 PRS Report. There was one abstention from the Investor Owned Utility (IOU) Market Segment.

- ***NPRR591, As-Built Clarification and Corrections Related to NPRR568 and NPRR555 [ERCOT] - URGENT.***

Revision Description: This NPRR proposes changes that clarify ERCOT’s intended implementation of the Settlement formulas in NPRR568, Real-Time Reserve Price Adder Based on Operating Reserve Demand Curve, and that align the Protocols with the Settlement mechanisms that ERCOT’s system design and requirements analysis has concluded are essential to implement NPRR568. In effect this NPRR provides “as-built” modifications to the requirements of NPRR568.

Proposed Effective Date: March 1, 2014

ERCOT Impact Analysis: No budgetary impact; no impacts to ERCOT staffing; no

impacts to ERCOT computer systems; ERCOT business functions will be updated; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports approval of NPRR591.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of NPRR591 as recommended by PRS in the 1/16/14 PRS Report.

- ***SCR774, Enhancement to Outage Scheduler and Reports [Edison Mission] - URGENT.***

Revision Description: This System Change Request (SCR) adds fields to the Outage Scheduler in order to provide information on changes to approved Outages, and adds a report on cancelled Outages.

Proposed Effective Date: Upon System Implementation – Priority 2014; Rank 1070

ERCOT Impact Analysis: \$20k - \$30k; no impacts to ERCOT staffing; impacts to Outage Scheduler (OS), Current Day Reports (CDR), and Market Information System (MIS); no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports approval of SCR774 as it will provide greater data transparency into the Outages entered in the Outage Scheduler.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of SCR774 as recommended by PRS in the 12/19/13 PRS Report. *Credit review not applicable.*

- ***SCR777, Bilateral CRR Interface Enhancement [SESCO].***

Revision Description: Currently, the CRR interface allows for manual, discrete data entering. This SCR would implement a file upload/download feature for bilateral CRR transactions via the CRR interface.

Proposed Effective Date: Upon System Implementation – Priority 2014; Rank 1110

ERCOT Impact Analysis: \$65k - \$85k; no impacts to ERCOT staffing; impacts to CRR; no impacts to ERCOT business functions; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports SCR777 as it increases the efficiency of business processes related to bilateral CRR transactions.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of SCR777 as recommended by PRS in the 1/16/14 PRS Report. *Credit review not applicable.*

- ***SCR778, Credit Exposure Calculations for NOIE Options Linked to RTM PTP Obligations [ERCOT].***

Revision Description: This SCR proposes changes to the Credit Monitoring and Management (CMM) system to modify the Real-Time Liability (RTL) calculation to reduce credit exposure to an estimated amount based on calculations defined in paragraph (1) of Protocol Section 7.9.2.1, Payments and Charges for PTP Obligations Settled in Real-Time; and modify the Outstanding Unpaid Transactions (OUT) calculation to include credit exposure to an estimated amount based on calculations defined in paragraphs (3) and (4) of Protocol Section 4.6.3, Settlement for PTP Obligations Bought in DAM.

Proposed Effective Date: Upon System Implementation – Priority 2014; Rank 1120

ERCOT Impact Analysis: \$30k - \$45k; no impacts to ERCOT staffing; impacts to CMM and Commercial Systems Integration (CSI); no impacts to ERCOT business functions; no

impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports approval of SCR778.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of SCR778 as recommended by PRS in the 1/16/14 PRS Report. *Credit review not applicable.*

- ***PGRR032, Stakeholder Review of Resource Registration Data Requirements [Resource Data Working Group (RDWG)].***

Revision Description: This Planning Guide Revision Request (PGRR) describes the process for review and approval of changes, additions or deletions to the required Resource Registration data.

Proposed Effective Date: March 1, 2014

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.

ERCOT Opinion: ERCOT supports approval of PGRR032 as it aligns the Planning Guides with the process defined in the Resource Registration Glossary for revising data fields that may be required from Resources as part of the Resource Registration process.

TAC Decision: On 12/3/13, TAC unanimously voted to recommend approval of PGRR032 as recommended by ROS in the 11/14/13 ROS Report. *Credit review not applicable.*

- ***PGRR033, Dynamics Flat Start Cases Preparation [Dynamics Working Group (DWG)].***

Revision Description: This PGRR adds the requirement to the Planning Guide for ERCOT to prepare all flat start simulations.

Proposed Effective Date: January 1, 2015

ERCOT Impact Analysis: \$120k - \$130k (annual recurring O&M budget cost); one FTE in ERCOT Planning department; no impacts to ERCOT computer systems; ERCOT business functions will be updated; no impacts to ERCOT grid operations and practices.

ERCOT Opinion: ERCOT supports approval of PGRR033 as it will lead to all dynamic flat start cases being created by a single entity (ERCOT) which should result in better model consistency and quality.

TAC Decision: On 1/28/14, TAC unanimously voted to recommend approval of PGRR033 as recommended by PRS in the 1/9/14 ROS Report. *Credit review not applicable.*

The TAC Reports and Impact Analyses for these Revision Requests are included in the ERCOT Board meeting materials which can found at the following link:

<http://www.ercot.com/calendar/2014/02/20140211-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:

The PRS met, discussed the issues, and submitted reports to TAC regarding NPRRs 503, 556, 563, 567, 569, 573, 577, 580, 581, 591; and SCRs 774, 777, and 778.

The ROS met, discussed the issues, and submitted reports to TAC regarding PGRRs 032 and 033.

TAC considered the issues and voted to take action on regarding NPRRs 503, 556, 563, 567, 569, 573, 577, 580, 581, 591; SCRs 774, 777, and 778; and PGRRs 032 and 033.

Conclusion/Recommendation:

As more specifically described above, TAC recommends that the ERCOT Board approve NPRRs 503, 556, 563, 567, 569, 573, 577, 580, 581, 591; SCRs 774, 777, and 778; and PGRRs 032 and 033.

ELECTRIC RELIABILITY COUNCIL OF TEXAS, INC.
BOARD OF DIRECTORS RESOLUTION

WHEREAS, the Electric Reliability Council of Texas, Inc. (ERCOT) Board of Directors (Board) deems it desirable and in ERCOT's best interest to approve the following Nodal Protocol Revision Requests (NPRRs), System Change Requests (SCRs) and Planning Guide Revision Requests (PGRRs):

- NPRR503, Removal of Language Related to NPRR219;
- NPRR556, Resource Adequacy During Transmission Equipment Outage – URGENT;
- NPRR563, Credit Lock Standards;
- NPRR567, Stakeholder Review of Resource Registration Data Requirements;
- NPRR569, Retail Clarification and Cleanup;
- NPRR573, Alignment of PRC Calculation;
- NPRR577, As-Built Clarification for Portion of WGR Group GREDP Evaluation;
- NPRR580, Establishment of a Rolling CRR Balancing Account Fund;
- NPRR581, Add Fast Responding Regulation Service as a Subset of Regulation Service;
- NPRR591, As-Built Clarification and Corrections Related to NPRR568 and NPRR555 – URGENT;
- SCR774, Enhancement to Outage Scheduler and Reports;
- SCR777, Bilateral CRR Interface Enhancement;
- SCR778, Exposure Calculations for NOIE Options Linked to RTM PTP Obligations;
- PGRR032, Stakeholder Review of Resource Registration Data Requirements; and
- PGRR033, Dynamics Flat Start Cases Preparation

THEREFORE be it RESOLVED, that the ERCOT Board hereby approves NPRRs 503, 556, 563, 567, 569, 573, 577, 580, 581, 591; SCRs 774, 777, and 778; and PGRRs 032 and 033.

CORPORATE SECRETARY'S CERTIFICATE

I, Vickie G. Leady, Assistant Corporate Secretary of ERCOT, do hereby certify that, at its February meeting, the ERCOT Board passed a motion approving the above Resolution by _____.

IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of February 2014.

Vickie G. Leady
Assistant Corporate Secretary