



Date: March 11, 2011
To: ERCOT Board of Directors
From: Brad Jones, Technical Advisory Committee (TAC) Chair
Subject: Impact Assessments for Parking Deck Nodal Protocol Revision Requests (NPRRs) and Nodal Operating Guide Revision Request (NOGRR)

Issue for the ERCOT Board of Directors

ERCOT Board of Directors (ERCOT Board) Meeting Date: March 22, 2011

Agenda Item No.: 7d

Issue:

Consideration of the impact assessment for the following NPRRs:

- NPRR208 – Registration and Settlement of Distributed Generation (DG) Less Than One MW
- NPRR219 – Resolution of Alignment Items A33, A92, A106, and A150 – Transmission Service Providers (TSPs) Must Submit Outages for Resource Owned Equipment and Clarification of Changes in Status of Transmission Element Postings
- NPRR251 – Synchronization of Protocol Revision Request (PRR) 845, Definition for IDR Meters and Optional Removal of Interval Data Recorder (IDR) Meters at a Premise Where an Advanced Meter Can be Provisioned
- NPRR282 – Dynamic Ramp Rates Use in Security Constrained Economic Dispatch (SCED)
- NPRR285 – Generation Resource Base Point Deviation Charge Corrections
- NPRR293 – Requirement to Post Point-to-Point (PTP) Obligation Quantities Awarded in Day Ahead Market (DAM) (formerly “Requirement to Post Congestion Revenue Rights (CRR) Option and Obligation Quantities Cleared in DAM or Taken to Real Time”)
- NOGRR050 – Resolution of Reporting Issues Related to NPRR219

Background/History:

Under Zonal Protocol Section 21.11.3.1, Review and Posting of NPRRs, and Zonal Operating Guide Section 1.3.4.1, Review and Posting of Operating Guide Revision Requests and NOGRRs, the ERCOT Chief Executive Officer (CEO) had the ability to determine whether or not an NPRR and/or NOGRR was necessary prior to the Texas Nodal Market Implementation Date. If the ERCOT CEO deemed an NPRR and/or NOGRR not necessary for go-live, the impact assessment of such NPRRs and/or NOGRRs were deferred and they were placed on the Parking Deck upon ERCOT Board approval of language until such time the impact assessment could be completed. ERCOT has initiated the impact assessments of Parking Deck items. The following NPRRs and NOGRR impact assessments have been reviewed in the stakeholder process and are presented to the ERCOT Board for consideration of whether or not the project should be authorized. Unless otherwise noted all Market Segments were present for each vote.

- **NPRR208 – Registration and Settlement of DG Less Than One MW [Non-Opt-In Entity (NOIE) Distributed Renewable Generation (DRG) Settlements Task Force].**
Effective Date: Upon System Implementation (next achievable release window is

September 2011 assuming March Board approval); Parking deck priority – Critical.

ERCOT Impact Analysis: \$5k - \$10k; no ERCOT staffing impacts; system changes to Settlements & Billing (S&B) required; no impacts to ERCOT grid operations and practices; no impact to grid operations and practices.

Revision Description: The NPRR includes proposed language changes by the NOIE DRG Settlements Task Force in regards to the registration requirements for DG greater than 50 kW and less than or equal to one MW. In addition this NPRR synchronizes language approved through Protocol Revision Request (PRR) 756, Distributed Renewable Generation Modifications, with some recommended revisions consistent with the NOIE DRG Settlements Task Force discussions. PRR756 was approved by ERCOT Board on May 20, 2008 and was implemented on November 21, 2009.

Procedural History: On July 20, 2010, the ERCOT Board approved NPRR208 as recommended by TAC in the July 1, 2010 TAC Report and to assign a priority of Critical to the grey-boxed language. On February 17, 2011, the Protocol Revision Subcommittee (PRS) unanimously voted to endorse and forward the impact assessment for NPRR208 to TAC. On March 3, 2011, TAC unanimously voted to recommend approval of the impact assessment for NPRR208 as recommended by PRS in the February 17, 2011 PRS Report – Impact Assessment.

- **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 [ERCOT].**

Effective Date: Upon System Implementation (ERCOT has not determined a target release date); Parking deck priority – Medium.

ERCOT Impact Analysis: \$565k - \$750k; labor savings totaling 1.25 Full Time Employee (FTE) per year; impacts to Network Model Management System (NMMS), Resource Asset Registration Form (RARF), Siebel, Outage Scheduler Core and User Interface (UI), NMMS to Outage Scheduler Integration, Enterprise Integration, Enterprise Information System (EIS), and External Web Services (EWS); implementation of system changes that enable Resource Entity to enter Outages for their Transmission Facilities in the Outage Scheduler; remove ERCOT as the responsible Entity that will manage Outage Scheduler entries for the Generation Resource for Transmission Elements owned by the Resource other than the Outage of the Generation or Load Resource itself.

Revision Description: This NPRR requires the Generation Resource to designate a TSP as the responsible Entity that will manage Outage Scheduler entries for the Generation Resource for Transmission Elements owned by the Resource other than the Outage of the Generation or Load Resource itself. This NPRR also requires all changes or expected changes in the status of Transmission Facilities to be in the Outage Scheduler to ensure that all Outages in the Outage Scheduler are provided to the Market Information System (MIS).

Procedural History: On October 19, 2010, the ERCOT Board approved NPRR219 as recommended by TAC in the October 7, 2010 TAC Report and as amended by the October 14, 2010 ERCOT comments. On February 17, 2011, PRS unanimously voted to endorse and forward the impact assessment for NPRR219 to TAC and to revise the Priority to Medium. On March 3, 2011, TAC unanimously voted to recommend approval of the impact assessment for NPRR219 as recommended by PRS in the February 17, 2011 PRS Report – Impact Assessment.

- **NPRR251 – Synchronization of PRR845, Definition for IDR Meters and Optional Removal of IDR Meters at a Premise Where an Advanced Meter Can be Provisioned [Retail Metering Working Group (RMWG)].**

Effective Date: Upon System Implementation (next achievable release window is June 2011 assuming March Board approval); Parking deck priority – High.

ERCOT Impact Analysis: \$35k - \$45k; no ERCOT staffing impacts; impacts to Commercial Systems (COMS) and EIS; change reporting for Advanced Meters under certain conditions where an Advanced Meter has been provisioned by the Transmission and/or Distribution Service Provider (TDSP); no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR synchronizes the Nodal Protocols with PRR845, Definition for IDR Meters and Optional Removal of IDR Meters at a Premise where an Advanced Meter Can be Provisioned, which clarifies the meaning of an IDR Meter and provides for optional removal of IDR Meters under certain conditions for Premises where an Advanced Meter can be provisioned by the TDSP. This NPRR also inserts grey boxed language for reporting requirements in Sections 18.6.1 and 18.6.2, to be implemented post Texas Nodal Market Implementation Date.

Procedural History: On September 21, 2010, the ERCOT Board approved NPRR251 as recommended by TAC in the September 2, 2010 TAC Report. On February 17, 2011, PRS unanimously voted to endorse and forward the impact assessment for NPRR251 to TAC. On March 3, 2011, TAC unanimously voted to recommend approval of the impact assessment for NPRR251 as recommended by PRS in the February 17, 2011 PRS Report – Impact Assessment.

- **NPRR282 – Dynamic Ramp Rates Use in SCED [Calpine].**

Effective Date: Upon System Implementation (next achievable release window is June 2011 assuming March Board approval); Parking deck priority – Critical.

ERCOT Impact Analysis: \$30k - \$35k; no impacts to ERCOT staffing; impact to Energy Management System (EMS); ERCOT Nodal Inter-Control Center Communication Protocol (ICCP) Handbook will need to be updated; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR revises Protocol language to result in more reasonable Dispatch of Generation Resources when a telemetered Base Point requires the Resource to employ technologies that in turn change the Resource's ramp rate.

Procedural History: On January 18, 2011, the ERCOT Board approved NPRR282 as recommended by TAC in the December 6, 2010 TAC Report. On February 17, 2011, PRS unanimously voted to endorse and forward the impact assessment for NPRR282 to TAC. On March 3, 2011, TAC unanimously voted to recommend approval of the impact assessment for NPRR282 as recommended by PRS in the February 17, 2011 PRS Report – Impact Assessment.

- **NPRR285 – Replace Generation Resource Base Point Deviation Charge Corrections [Wholesale Market Subcommittee (WMS)].**

Effective Date: Upon System Implementation (next achievable release window is May 2011 assuming March Board approval); Parking deck priority – Critical.

ERCOT Impact Analysis: \$30k - \$40k; no ERCOT staffing impacts; system changes to EMS, Market Management System (MMS), and S&B required; flag will be sent by ERCOT to the Qualified Scheduling Entity (QSE) for each Resource indicating SCED has Dispatched a Generation Resource below the High Dispatch Limit (HDL) used by SCED. This flag will be used by the Settlement system to determine when the Intermittent Renewable Resource (IRR) Generation Resource Base Point Deviation Charge will apply; no impact to grid operations and practices.

Revision Description: This NPRR provided that an exception to the Generation Resource Base Point Deviation Charge for any 15-minute Settlement Interval which includes a SCED interval that is less than four 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 removed the Base Point Deviation Charge for all 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. This NPRR also required that ERCOT send a flag to the QSE for each Resource indicating SCED has Dispatched a Generation Resource below the HDL used by SCED. This flag will be used by the Settlement system to determine when the IRR Generation Resource Base Point Deviation Charge will apply.

Procedural History: On November 16, 2010, the ERCOT Board approved NPRR285 as recommended by TAC in the November 4, 2010 TAC Report. On January 27, 2011, PRS unanimously voted to endorse and forward the draft Impact Analysis and Cost-Benefit Analysis for NPRR285 to TAC. The Independent Retail Electric Provider (IREP) and Independent Generator Market Segments were not present for the vote. On February 3, 2011, TAC unanimously voted to recommend approval of the Impact Assessment for NPRR285.

- **NPRR293 – Requirement to Post PTP Obligation Quantities Awarded in DAM (formerly “Requirement to Post CRR Option and Obligation Quantities Cleared in DAM or Taken to Real Time”) [Luminant].**

Effective Date: Upon System Implementation (next achievable release window is May 2011 assuming March Board approval); Parking deck priority – High.

ERCOT Impact Analysis: \$10k - \$15k; no impacts to ERCOT staffing; impact to implement the MMS view and Current-Day Report (CDR) automated Comma-Separated Value (CSV) and Extensible Markup Language (XML) report generation and MIS posting; implement an automated process to post the quantities of PTP Obligations awarded in the DAM; no impacts to ERCOT grid operations and practices.

Revision Description: This NPRR specifies the need for ERCOT to post quantities of PTP Obligations that were awarded in the DAM.

Procedural History: On December 14, 2010, the ERCOT Board approved NPRR293 as amended by the December 10, 2010 ERCOT comments. On February 17, 2011, PRS unanimously voted to endorse and forward the impact assessment for NPRR293 to TAC. On March 3, 2011, TAC unanimously voted to recommend approval of the impact assessment for NPRR293 as recommended by PRS in the February 17, 2011 PRS Report – Impact Assessment.

- **NOGRR050 – Resolution of Reporting Issues Related to NPRR219 [CenterPoint**



Energy].

Effective Date: Upon System Implementation (ERCOT has not determined a target release date); Parking deck priority – Medium.

ERCOT Impact Analysis: Cost/budget impacts for implementation have been included in the revised ERCOT Impact Analysis Report for NPRR219.

Revision Description: This NOGRR removes the requirement for ERCOT to produce several reports related to Outage Scheduling from the current Nodal Operating Guide and grey-boxing the requirements until such time ERCOT systems can be modified to include only the TSP's Outages in the reports.

Procedural History: On October 19, 2010, the ERCOT Board approved NOGRR050 as recommended by TAC in the October 7, 2010 TAC Report. On February 17, 2011, PRS unanimously voted to endorse and forward the impact assessment for NOGRR050 to TAC and to revise the Priority to Medium. On March 3, 2011, TAC unanimously voted to recommend approval of the impact assessment for NOGRR050 as recommended by PRS in the February 17, 2011 PRS Report – Impact Assessment.

The TAC Reports, Impact Analyses and Cost Benefit Analyses for these NPRRs and NOGRR are included in the ERCOT Board meeting materials. In addition, these NPRRs and NOGRR 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/issues/nogrr/026-050/050/index>

Also, for your reference, the language for these NPRRs and NOGRR that was approved by the ERCOT Board and incorporated into the Nodal Protocols and Nodal Operating Guides as grey-boxed language is included.

Key Factors Influencing Issue:

PRS met, discussed the issues, and submitted a report to TAC regarding the impact assessments of NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050 described herein. TAC considered the issues and voted to take action on NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050 as described above.

Alternatives:

1. Approve the TAC recommendation on the impact assessment for NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050, as described above or as modified by the ERCOT Board;
2. Reject the TAC recommendation on the impact assessment for NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050;
3. Defer decision on the TAC recommendation on the impact assessment for NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050; or
4. Remand the impact assessment for NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050 to TAC with instructions.



Conclusion/Recommendation:

As more specifically described above, TAC recommends that the ERCOT Board approve the impact assessments for NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050 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 impact assessments for the following Nodal Protocol Revision Requests (NPRRs) and Nodal Operating Guide Revision Request (NOGRR):

- NPRR208 – Registration and Settlement of Distributed Generation (DG) Less Than One MW
- NPRR219 – Resolution of Alignment Items A33, A92, A106, and A150 – Transmission Service Providers (TSPs) Must Submit Outages for Resource Owned Equipment and Clarification of Changes in Status of Transmission Element Postings
- NPRR251 – Synchronization of Protocol Revision Request (PRR) 845, Definition for IDR Meters and Optional Removal of Interval Data Recorder (IDR) Meters at a Premise Where an Advanced Meter Can be Provisioned
- NPRR282 – Dynamic Ramp Rates Use in Security Constrained Economic Dispatch (SCED)
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- NOGRR050 – Resolution of Reporting Issues Related to NPRR219

THEREFORE be it RESOLVED, that the ERCOT Board hereby approve the impact assessments for NPRRs 208, 219, 251, 282, 285, and 293; and NOGRR050.

CORPORATE SECRETARY’S CERTIFICATE

I, Bill Magness, Corporate Secretary of ERCOT, do hereby certify that, at its March 22, 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 March, 2011.

Bill Magness
Corporate Secretary