

Technical Advisory Committee

Presentation to the
ERCOT Board of Directors
March 23, 2010

TAC Report Summary

- 2 PRRs for Board approval
- 5 NPRRs for Board approval
- 1 SCR for Board approval
- Report on Approved Guide Revision Requests
- Preview: Future Board meetings

Protocol Revision Requests

- PRR837 Load Used in RMR Studies
- PRR841 Revise Total ERCOT Wind Power Forecast (TEWPF)

PRR837, Load Used in RMR Studies

NPRR198, Load Used in RMR Studies

Purpose (PSEG)	Would provide guidance to ERCOT to use the peak Load forecast posted pursuant to P.U.C. SUBST. R. 25.505, Resource Adequacy in the Electric Reliability Council of Texas Power Region, for the next 12 months for the RMR study. This aligns the Load forecast period with the RMR contract period and ensures that the Load forecast used for the analysis is one with a reasonable probability of occurrence.	
Market Impact	N/A	
System Change	No	N/A
TAC Vote	On 2/4/10, TAC unanimously voted to recommend approval of PRR837 as recommended by PRS in the 1/21/10 PRS Report and as revised by TAC. On 3/4/10, TAC unanimously voted to recommend approval of NPRR198 as recommended by TAC in the 2/4/10 TAC Report.	
CEO Determination	No opinion on PRR837; NPRR198 Necessary for Go-Live for synch	
Effective Date	PRR837 – April 1, 2010; NPRR198 - Upon Nodal Implementation	

PRR837, Load Used in RMR Studies

NPRR198, Load Used in RMR Studies

<i>Item Reviewed</i>	<i>No Impact</i>	<i>Impact</i>	<i>Description</i>
<i>Budget</i>	★		
<i>Staffing</i>		★	PRR 0.15 to 0.23 FTEs for the PRR
<i>Computer Systems</i>	★		
<i>Business Functions</i>		★	Some business functions would change for the PRR
<i>Grid Operations</i>	★		
<i>Credit Monitoring/ Liability</i>	★		

PRR841, Revise Total ERCOT Wind Power Forecast (TEWPF)

Purpose (Luminant)	This PRR revises the probability of exceedance percentage applicable to the Total ERCOT Wind Power Forecast (TEWPF) from 80% to 50% to better reflect the total ERCOT Wind-powered Generation Resource (WGR) production that has been historically experienced.	
Market Impact	N/A	
System Change	No	N/A
TAC Vote	On 3/4/10, TAC unanimously voted to recommend approval of PRR841 as recommended by PRS in the 2/18/10 PRS Report.	
CEO Determination	No opinion on necessity prior to go-live	
Effective Date	April 1, 2010	

PRR841, Revise Total ERCOT Wind Power Forecast (TEWPF)

<i>Item Reviewed</i>	<i>No Impact</i>	<i>Impact</i>	<i>Description</i>
<i>Budget</i>	★		
<i>Staffing</i>	★		
<i>Computer Systems</i>	★		
<i>Business Functions</i>	★		
<i>Grid Operations</i>	★		
<i>Credit Monitoring/ Liability</i>	★		

Nodal Protocol Revision Requests

For Inclusion in the Nodal Parking Deck:

- None

For Texas Nodal Market Implementation Date:

- NPRR156 Transparency for PSS and Full Interconnection Studies
- NPRR169 Clarify the Calculation and Posting of LMPs for the Load Zone and LMPs for each Hub (On 2/16/10, the ERCOT Board remanded NPRR169 to TAC.)
- NPRR198 Load Used in RMR Studies
- NPRR203 Amend Telemetry Bus Accuracy Requirements
- NPRR204 Update Generic Startup Cost for Reciprocating Engines

NPRR156, Transparency for PSS and Full Interconnection Studies

Purpose (PSEG)	This NPRR proposes updates to Section 1, Overview, to provide transparency to status of Power System Stabilizer (PSS) equipment and interconnection requests.	
Market Impact	N/A	
ERCOT Impact	Yes	Minor business process impacts post Nodal go-live.
TAC Vote	On 3/4/10, TAC voted to recommend approval of NPRR156 as amended by the 3/4/10 ERCOT comments, with the recognition that ERCOT will continue with Option 3, Manual Interim Option (described in the 3/4/10 ERCOT comments), to fulfill the requirement of item (7) of Section 3.15.3, QSE Responsibilities Related to Voltage Support, until Option 2, Include PSS Status Information in the RARF, can be implemented to automate the solution. There was one opposing vote from the Independent Generator Market Segment.	
CEO Determination	No opinion on whether or not NPRR 156 is necessary prior to the Texas Nodal Market implementation date.	
Effective Date	Upon Texas Nodal Market Implementation.	

NPRR156, Transparency for PSS and Full Interconnection Studies

<i>Item Reviewed</i>	<i>No Impact</i>	<i>Impact</i>	<i>Description</i>
<i>Budget</i>	★		
<i>Staffing</i>	★		
<i>Computer Systems</i>	★		
<i>Business Functions</i>		★	Minor business process impacts; ERCOT will continue to periodically update & post spreadsheet with PSS status.
<i>Grid Operations</i>	★		
<i>Credit Monitoring/ Liability</i>	★		

NPRR169, Clarify the Calculation and Posting of LMPs for the Load Zone and LMPs for each Hub

Purpose (ERCOT)	This NPRR clarifies language that specifies the calculation and posting of Locational Marginal Prices (LMPs) for the Load Zone and “LMPs for each Hub.”	
Market Impact	N/A	
ERCOT Impact	Yes	Budget and Systems impact.
TAC Vote	On 3/4/10, TAC unanimously voted to recommend approval of NPRR169 as amended by the 3/2/10 NATF comments and as revised by TAC.	
Board Vote	On 1/19/10, the ERCOT Board tabled NPRR169 for one month. On 2/16/10, the ERCOT Board remanded NPRR169 to TAC.	
CEO Determination	No opinion on whether or not NPRR169 is necessary prior to the Texas Nodal Market Implementation Date.	
Effective Date	Upon Texas Nodal Market Implementation.	

NPRR169, Clarify the Calculation and Posting of LMPs for the Load Zone and LMPs for each Hub

<i>Item Reviewed</i>	<i>No Impact</i>	<i>Impact</i>	<i>Description</i>
<i>Budget</i>		★	Less than \$50,000
<i>Staffing</i>	★		
<i>Computer Systems</i>		★	Impacts to Market Management System, Integration Testing, Market Information System & Current Day Reports
<i>Business Functions</i>	★		
<i>Grid Operations</i>	★		
<i>Credit Monitoring/ Liability</i>	★		

NPRR203, Amend Telemetry Bus Accuracy Requirements

Purpose (NDSWG)	This NPRR proposes a new term, State Estimator Bus, and proposes language changes to Section 3.10.7.5.2, Continuous Telemetry of the Real-Time Measurements of Bus Load, Voltages, Tap Position, and Flows.	
Market Impact	N/A	
ERCOT Impact	No	N/A
TAC Vote	On 3/4/10, TAC unanimously voted to recommend approval of NPRR203 as recommended by PRS in the 2/18/10 PRS Report.	
CEO Determination	Necessary for Go-Live	
Effective Date	Upon Texas Nodal Market Implementation.	

NPRR203, Amend Telemetry Bus Accuracy Requirements

<i>Item Reviewed</i>	<i>No Impact</i>	<i>Impact</i>	<i>Description</i>
<i>Budget</i>	★		
<i>Staffing</i>	★		
<i>Computer Systems</i>	★		
<i>Business Functions</i>	★		
<i>Grid Operations</i>	★		
<i>Credit Monitoring/ Liability</i>	★		

NPRR204, Update Generic Startup Cost for Reciprocating Engines

Purpose (STEC)	This NPRR adds an Operations and Maintenance (O&M) cost for the “Reciprocating Engines” Resource category to the Resource Category Startup Offer Generic Cap determination.	
Market Impact	N/A	
ERCOT Impact	No	N/A
TAC Vote	On 3/4/10, TAC unanimously voted to recommend approval of NPRR204 as recommended by PRS in the 2/18/10 PRS Report.	
CEO Determination	No opinion on whether or not NPRR204 is necessary prior to the Texas Nodal Market Implementation Date.	
Effective Date	Upon Texas Nodal Market Implementation.	

NPRR204, Update Generic Startup Cost for Reciprocating Engines

<i>Item Reviewed</i>	<i>No Impact</i>	<i>Impact</i>	<i>Description</i>
<i>Budget</i>	★		
<i>Staffing</i>	★		
<i>Computer Systems</i>	★		
<i>Business Functions</i>	★		
<i>Grid Operations</i>	★		
<i>Credit Monitoring/ Liability</i>	★		

Nodal Parking Deck

Approved by Board of Directors

Source Document	Title	Priority	Current Status
NPRR131	Ancillary Service Trades with ERCOT	High	Board Approved 1/19/10
NPRR181	FIP Definition Revision	High	Board Approved 1/19/10
NPRR153	Generation Resource Fixed Quantity Block Offer	Medium	Board Approved 1/19/10
NPRR164	Resubmitting Ancillary Service offers in SASM	Medium	Board Approved 1/19/10
SCR755	ERCOT.com Website Enhancements	Medium	Board approved 2/16/10

Nodal Parking Deck – Pending Approval

Source Document	Title	Suggested Priority	Current Status
NPRR146	ICCP Telemetry Information Submittals	TBD	Tabled at TAC PRS approved 2/19/2009
SCR756	Enhancements to the MarkeTrack Application	TBD	Tabled at RMS

Guide Revision Requests approved by TAC

- None to report for March.

Generation Adequacy

- **TAC memo in your packet**
- **TAC approved GATF recommendations:**
 - LOLP Study Review/Load Forecasting/EILS and other
 - CDR Inputs, Calculations and Format
 - Installed Capacity Assumptions – use RARF
 - New Unit Additions – affirmative declaration
 - Renewables – Wind: effective load carrying capability / Solar: RARF
 - Mothballed Capacity – no change
 - DC Tie Capacity – no change
 - Switchable Capacity - RARF
 - Netting of Generation and Load – no change
 - Retired Capacity – introduce “pending unit requirements” line

Wind Cost Allocation

- TAC memo in your packet
- TAC and WMS considered options to the cost allocation of Ancillary Services to WGRs and TAC requests that the ERCOT Board direct TAC regarding such approaches.

Preview: Issues for Consideration at Future Board Meetings

- NPRR091 Scarcity Pricing and Mitigated Offer Cap During the Period Commencing on the Nodal Market Implementation Date and Continuing for a Total of 45 Days (April)
- PRR833 Primary Frequency Response Requirement from Existing WGRs (April)
- NPRR 206 Nodal Market Day-Ahead Market Credit Requirements
 - Variables determination (April)