Technical Advisory Committee

Presentation to the ERCOT Board of Directors
October 20, 2009

TAC Report Summary

- 6 PRRs for Board approval
- 5 NPRRs for Board approval
- Report on Approved Guide Revision Requests
- Notice of PRR Rejection
- Unfunded Projects List Quarterly Report
- Designation of 2010 Closely Related Elements
- Report on PRR 763 implementation
- Preview: Future Board meetings

Protocol Revision Requests

- PRR 811 Real Time Production Potential
- PRR 817 Cease Late Payment Charges for Defaulted Entities
- PRR 822 Removing Access to Restricted Computer Systems, Control Systems, and Facilities - URGENT
- PRR 823 Clarifying Language for Resource12-Month Rolling Outage Schedule Format and Reporting Requirement
- PRR 829 Total Transmission Capacity Correction
- PRR 831 Annual Transmission Congestion Rights Auction Amounts - URGENT

PRR811, Real Time Production Potential

Purpose (Wind Coalition)	Establishes a requirement for Wind Generation Resources (WGRs) to telemeter a Real Time signal indicating the Real Time Production Potential which will be a function of wind and turbine availability at the time			
Benefit		Increase wind generation production by providing more complete information to ERCOT		
Market Impact	N/A			
System Change	No N/A			
Assumptions	N/A			
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.			
CEO Determination	No opinion for go-live			
Effective Date	December 1, 200	09		

PRR811, Real Time Production Potential

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	*		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\bigstar		
Credit Monitoring/ Liability	\Rightarrow		

PRR817, Cease Late Payment Charges for Defaulted Entities

Purpose (ERCOT)	Modifies language to enable ERCOT to cease charging late fees to defaulting Entities prior to the initiation of the Uplift process, if ERCOT has determined that the recovery of late fees from the defaulting Entity is unlikely. Clarifies how much security may be held back to be used to pay minor items as they come due to reduce the market admin burden of processing short payments.		
Benefit	Removes the administrative complexities related to separating late fees and principal balances owed to QSEs, as required by the Uplift process to ensure that late fees are not uplifted to the market		
Market Impact	N/A		
System Change	No	N/A	
Assumptions	N/A		
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.		
CEO Determination	No opinion for go-live		
Effective Date	November 1, 200	09	

PRR817, Cease Late Payment Charges for Defaulted Entities

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	*		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\bigstar		
Credit Monitoring/ Liability	\Rightarrow		

PRR822, Removing Access to Restricted Computer Systems, Control Systems and Facilities – Urgent

Purpose (TRE)	Defines the requirement for all Market Participants and ERCOT to have processes in place for removing access to restricted computer systems, control systems, and Facilities when access is no longer required. This PRR also defines the reporting requirement for incidents where improper access by terminated employees, contractors, consultants and affiliates has occurred.		
Benefit	Improved protection of restricted computer systems, control systems and Facilities, and also the creation of the requirement to report violations.		
Market Impact	N/A		
System Change	No	N/A	
Assumptions	N/A		
TAC Vote	TAC voted to recommended approval as amended by TAC. There were 7 abstentions: 1 Independent Generator; 1 Independent REP; 3 Investor Owned Utility; 2 Independent Power Marketer. All Market Segments were present for the vote.		
CEO Determination	No opinion for go-live		
Effective Date	TAC recommen	ds 01/01/10 effective date	

PRR822, Removing Access to Restricted Computer Systems, Control Systems and Facilities – Urgent

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\bigstar		
Credit Monitoring/ Liability	\bigstar		

PRR 822 – Overview of TAC action

- TAC addressed concerns expressed last month about ROS comments which only applied to NERC-registered entities. TACrecommended language applies to <u>all</u> Market Participants and ERCOT
- Although identification of restricted systems and facilities rests with each Market Participant, the requirement to develop procedures, follow the procedures, and notify the TRE of any incidents arising from violations of restricted systems or facilities from former employees and contractors is mandatory
- TAC attempted to balance system security needs with jurisdictional concerns, the realities of physical and time constraints, and reasonable standards for corporate practices
- TAC recommends January 1, 2010 effective date to allow Market Participants the time needed to ensure development of adequate procedures to meet the new Protocol requirement

10

PRR823, Clarifying Language for Resource 12-Month Rolling Planned Outage Schedule Format and Reporting Requirement

Purpose (Calpine)	Clarifies language regarding the requirement for Resource Entities to input a 12-month rolling schedule for Outages in the Outage Scheduler application				
Benefit	Clarity of the re schedules	Clarity of the requirement for submitting 12-month Outage schedules			
Market Impact	N/A	N/A			
System Change	No	No N/A			
Assumptions	N/A	N/A			
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.				
CEO Determination	No opinion for go-live				
Effective Date	December 1, 200)9			

PRR823, Clarifying Language for Resource 12-Month Rolling Planned Outage Schedule Format and Reporting Requirement

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\bigstar		
Credit Monitoring/ Liability	\Rightarrow		

PRR829, Total Transmission Capacity Correction - Urgent

Purpose (ERCOT)	Replaces the acronym Total Transfer Capability (TTC) with Total Transmission Capacity (TTC), defined in Section 2.2, Acronyms			
Benefit	Diminish exposure to finding of non-compliance with the NERC Reliability Standards			
Market Impact	N/A			
System Change	No	No N/A		
Assumptions	N/A			
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.			
CEO Determination	No opinion for go-live			
Effective Date	November 1, 200	09		

PRR829, Total Transmission Capacity Correction - Urgent

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\Rightarrow		
Credit Monitoring/ Liability	\star		Credit Review Pending

PRR831, Annual Transmission Congestion Rights (TCR) Auction Amount – Urgent

Purpose (ERCOT)	Revises the amount of Transmission Congestion Rights (TCRs) sold in the annual TCR auction from 40% to 30%			
Benefit	Reduce the imp (BENA)	Reduce the impact to Balancing Energy Neutrality Adjustment (BENA)		
Market Impact	N/A	N/A		
System Change	No	No N/A		
Assumptions	N/A	N/A		
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.			
CEO Determination	No opinion on go-live			
Effective Date	November 1, 20	09		

PRR831, Annual Transmission Congestion Rights (TCR) Auction Amount – Urgent

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\Rightarrow		
Credit Monitoring/ Liability	\star		Credit Review Pending

Nodal Protocol Revision Requests

- NPRR 174 FIP Modifications in Verifiable Startup and Minimum Energy Cost and Recovery of Exceptional Fuel Costs During RUC Intervals
- NPRR 189 Ancillary Service Deployment Clarification
- NPRR 191 Synchronization of PRR 189, Changes to Support Revisions to the PUCT POLR and Expedited Switch Rules
- NPRR 193 Application of nodal Implementation Surcharge in Verifiable Costs
- NPRR 195 Removal of McCamey Congestion Management from Nodal Protocols

NPRR174, FIP Modifications in Verifiable Startup and Minimum Energy Cost and Recovery of Exceptional Fuel Costs During RUC Intervals

Purpose (WMS)	Modifies the verifiable Startup Cost and verifiable minimum energy cost calculation to include a 50 cent adder for the Fuel Index Price (FIP). This NPRR also allows through the dispute process for the recovery of the difference between the Reliability Unit Commitment (RUC) Guarantee based on the actual price paid for delivered natural gas and a fuel price of FIP*1.X			
Benefit	Shares the risk associated with costs recovery for actual natural gas cost between the Qualified Scheduling Entity (QSE) providing the RUC committed Resource and the Load Serving Entity (LSE)			
Market Impact	N/A	N/A		
System Change	No N/A			
Assumptions	N/A			
TAC Vote	TAC voted to recommend approval as amended by NRG and City of Eastland comments with 2 abstentions – Consumer and Independent REP segments; all Market Segments were present			
CEO Determination	No opinion on v	whether NPRR is necessary prior to TNMID		

NPRR174, FIP Modifications in Verifiable Startup and Minimum Energy Cost and Recovery of Exceptional Fuel Costs During RUC Intervals

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\bigstar		
Credit Monitoring/ Liability	\Rightarrow		

NPRR189, Ancillary Service Deployment Clarification

Purpose (ERCOT)	Clarifies the difference between Ancillary Service capacity deployment and energy deployment and how it affects Security-Constrained Economic Dispatch (SCED)			
Benefit	More clarity regarding Ancillary Service deployment			
Market Impact	N/A			
System Change	No N/A			
Assumptions	N/A			
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.			
CEO Determination	Necessary prior	Necessary prior to go-live		

NPRR189, Ancillary Service Deployment Clarification

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		Due to current system design, there would be a Nodal impact if this NPRR is not approved
Business Functions	\Rightarrow		
Grid Operations	\Rightarrow		
Credit Monitoring/ Liability	\Rightarrow		

NPRR191, Synchronization of PRR819, Changes to Support Revisions to the PUCT POLR and Expedited Switch Rules

Purpose (Texas SET)	Synchronizes the Nodal Protocols with Protocol Revision Request (PRR) 819, Changes to Support Revisions to the PUCT POLR and Expedited Switch Rules, which provides that ERCOT shall identify, for 60 days, Electric Service Identifiers (ESI IDs) acquired in a Mass Transition to a Provider of Last Resort (POLR) so that Customers that switch from the POLR are not charged for an out-of-cycle meter read and it will also implement changes necessary to expedite the Customer switching process		
Benefit	Facilitates compliance with Public Utility Commission of Texas (PUCT) rules		
Market Impact	N/A		
System Change	No N/A		
Assumptions	N/A		
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.		
CEO Determination	Necessary prior	to go-live	

NPRR191, Synchronization of PRR819, Changes to Support Revisions to the PUCT POLR and Expedited Switch Rules

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\bigstar		
Credit Monitoring/ Liability	\Rightarrow		

NPRR193, Application of Nodal Implementation Surcharge in Verifiable Costs

Purpose (WMS)	Allows Resources to include in their verifiable costs the Nodal Implementation Surcharge for periods while ramping up from breaker close to Low Sustained Limit (LSL)			
Benefit	Ensures Generation Resources recover their full cost of operations including the fixed cost of the Nodal Implementation Surcharge			
Market Impact	N/A			
System Change	No	N/A		
Assumptions	N/A			
TAC Vote	TAC unanimously recommended approval; all Market Segments were present.			
CEO Determination	No opinion on	go-live		

NPRR193, Application of Nodal Implementation Surcharge in Verifiable Costs

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		
Computer Systems	\Rightarrow		
Business Functions	\Rightarrow		
Grid Operations	\Rightarrow		
Credit Monitoring/ Liability	\Rightarrow		

NPRR195, Removal of McCamey Congestion Management from Nodal Protocols

Purpose (ERCOT)	Removes the unique congestion management procedures for the McCamey Area from the Nodal Protocols, consistent with Zonal Protocol revisions made pursuant to Protocol Revision Request (PRR) 810, Remove McCamey Congestion Management, which was approved by the ERCOT Board on August 18, 2009. This NPRR removes all mention of McCamey Flowgate Rights (MCFRIs) while leaving intact the description of Flowgate Rights (FGRs) and related Settlement equations			
Benefit	Synchronized Zonal and Nodal Protocols			
Market Impact	N/A			
System Change	No N/A			
Assumptions	N/A			
TAC Vote	TAC recommended approval with 1 abstention from the Independent Generator segment; all Market Segments were present.			
CEO Determination	Necessary for g	Necessary for go-live		

NPRR195, Removal of McCamey Congestion Management from nodal Protocols

Item Reviewed	No Impact	Impact	Description
Budget	\Rightarrow		
Staffing	\bigstar		There is a reduction in workload due to this NPRR but not enough to alter current staffing projections.
Computer Systems	\Rightarrow		
Business Functions			
Grid Operations	\Rightarrow		
Credit Monitoring/ Liability	\Rightarrow		

Guide Revision Requests approved by TAC

- OGRR 225 Quick Start Units Qualification Ramp Period
- OGRR 235 Total Transmission Capacity Correction
- NOGRR 030 Synchronization Total Transmission Capacity Correction
- RMGRR 080 Define E-Mail Address Format for the Detail Record in the Customer Billing Contact Information File
- CMGRR 010 Synchronization of Competitive Metering Guide with PRR 804, Revisions to Section 21 Appeal Process
- COPMGRR 012 Creating Section 11, Disputes and Data Extract Variances
- <u>LPGRR 034</u> Profile Model Spreadsheets Calendar Extension and Delete Unused Models

Notice of PRR Rejection

PRR 828 Remove QSE SCE Performance Exemption for QSEs with Only Uncontrollable Renewable Resourcees On-line

Unfunded Projects List Quarterly Report

There are currently no unfunded projects

2010 CRE Recommendation

- TAC recommendation for 2010 Closely Related Elements (with associated list of no Boundary Generation Resources) was unanimously adopted with all market segments present
- Recommended list includes 25 CREs
- Four of the recommended CREs are new for 2010
 - Rothwood King 345A
 - Rothwood Kuykendahl
 - Springvalley McGregor
 - Springvalley Cottonwood

Preview: next Board meeting

- Revised Ancillary Services Procurement Methodology
- Quarterly Renewables Report to the PUCT