

ERCOT TECHNICAL ADVISORY COMMITTEE (TAC) MEETING

ERCOT Met Center / 7620 Metro Center Drive, Austin, Texas 78744

January 29, 2020; 9:30 a.m. – 2:00 p.m.

<http://ercot.webex.com>

Meeting Number: 624 034 920

Meeting Password: TAC

Audio Dial-In: 1-877-668-4493

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|----|---|------------------------|------------|
| 1. | Antitrust Admonition | ERCOT Staff | 9:30 a.m. |
| 2. | Election of 2020 TAC Chair and Vice Chair (Vote) | ERCOT Staff | |
| 3. | Approval of TAC Meeting Minutes (Vote) <ul style="list-style-type: none">• November 20, 2019 | TAC Chair | 9:40 a.m. |
| 4. | December Board Update <ul style="list-style-type: none">• Price Corrections and Considerations of Significance | TAC Chair
D. Maggio | 9:45 a.m. |
| 5. | Confirmation of 2020 Subcommittee Leadership (Vote) | TAC Chair | 9:55 a.m. |
| 6. | 2020 TAC Goals and Strategic Initiatives (Possible Vote) | TAC Chair | 10:00 a.m. |
| 7. | OBDRR017, Related to NPPR987, BESTF-3 Energy Storage Resource Contribution to Physical Responsive Capability and Real-Time On-Line Reserve Capacity Calculations (Vote) | | 10:10 a.m. |
| 8. | PRS Report (Vote) <ul style="list-style-type: none">• NPPR826, Mitigated Offer Caps for RMR Resources• NPPR838, Updated O&M Cost for RMR Resources• NPPR955, Define Limited Impact Remedial Action Scheme (RAS)• NPPR963, Base Point Deviation Settlement and Deployment Performance Metrics for Energy Storage Resources (Combo Model)• NPPR964, Improvement of RMR Process and Removal of Synchronous Condenser Unit and Agreement• NPPR967, Remove the 10 MW Limit from the Definition of Limited Duration Resource (LDR)• NPPR970, Reliability Unit Commitment (RUC) Fuel Dispute Process Clarification• NPPR971, Replacing the Real-Time Average Incremental Energy Cost• NPPR974, Capacity Insufficiency Operating Condition Notice (OCN) Transparency• NPPR977, Create MIS Posting for RUC Cancellations• NPPR978, Alignment with Amendments to PUCT Substantive Rule 25.505• NPPR980, Accounting for NSO Forced Outages and GINR Inactive Projects in the Report on the Capacity, Demand and Reserves in the ERCOT Region• NPPR982, Alignment of Block Load Transfer (BLT) Requirements Between Protocols and Nodal Operating Guide• NPPR985, Modify Forward Adjustment Factors to Include Pricing for the Current Operating Day• NPPR986, BESTF-2 Energy Storage Resource Energy Offer Curves, Pricing, Dispatch, and Mitigation - URGENT | M. Henson | 10:15 a.m. |

- NPRR988, Correction to Conditions for DAM Award Eligibility for PTP Obligations with Links to an Option – URGENT
 - SCR806, Adding QSE and DME Information to Disclosure Reports
 - Notice of Withdrawal
 - NPRR938, Distribution Voltage Level Block Load Transfer (BLT) Compensation
 - NPRR946, Allow TDSPs to Use 814_28, Complete Un-executable Transactions for 814_03 Switch Transactions Involved In A Mass Transition Event
 - NPRR976, Provisions for Resource Entities to Act as a Virtual QSE or Emergency QSE
9. Reliability and Operations Subcommittee Report (Vote) K. Bunch 10:40 a.m.
 - NOGRR183, Remedial Action Scheme (RAS) Submittal and Review Requirements
 10. Retail Market Subcommittee Report E. Blakey 11:00 a.m.
 11. Wholesale Market Subcommittee Report (Vote) D. Kee 11:20 a.m.
 - VCMRR026, Related to NPRR970, Reliability Unit Commitment (RUC) Fuel Dispute Process Clarification
 12. Real-Time Co-optimization Task Force (RTCTF) Report (Vote) M. Mereness 11:40 a.m.
 - KP1.1 subsections (2), (6), (7), and (8) Ancillary Service Demand Curves and Current Market Price Adders
 - KP1.2 subsection (3) System-Wide Offer Cap and Power Balance Penalty Price
 - KP1.3 subsections (11) and (14) Offering and Awarding Ancillary Services in Real-Time
 - KP1.4 subsections (3) and (4) Systems/Applications that Provide Input into the Real-Time Optimization Engine
 - KP1.5 subsections (14)-(16) Process for Deploying Ancillary Services
 - KP 1.6 subsection (5) Ancillary Service Imbalance Settlement
 - KP3 subsections (13) through (20) Reliability Unit Commitment
 - KP5 subsections (2)(a), (7)(b), and (7)(j) Day-Ahead Market
 - KP6 Market-Facing Reports
 - KP7 Performance Monitoring
 - Consolidated version of Key Principles
 13. Battery Energy Storage Task Force Report (Vote) K. Ragsdale 12:25 p.m.
 - KTC-1 Definitions and Registration for Energy Storage Resources
 - KTC-3 ESR Dispatch, Pricing and Mitigation
 - KTC-5 Performance
 - KTC-6 ESR Options to Maintain Desired Level of State of Charge
 - KTC-7 Settlement
 - KTC-8 Wholesale Storage Load Treatment
 - KTC-10 ESR - Study & Capacity Assumptions
 14. Distributed Generation Resource (DGR) Update B. Blevins 12:45 p.m.
 15. ERCOT Reports 1:00 p.m.
 - Southern Cross Transmission Directive #7, Determination as to How to Manage Congestion Caused by DC Tie (Vote) M. Mereness

- MIS/ERCOT.com Enhancements
- Annual RUC Reporting Requirement (Protocol Section 5.8)
- Forecast Adequacy of the Budgeted System Administration Fee

A. Lofton
D. Maggio
G. Gillmore

16. Other Business

1:40 p.m.

- Market Payment Processes Update

L. Wiley

Adjourn

TAC Chair

1:55 p.m.

Future TAC Meetings

- February 26, 2020
- March 25, 2020

<u>Open Action Items from Previous Meeting(s)</u>	<u>Responsible Party</u>
• 1/26/17 – Resource Definition Task Force (RTF) – Accomplish objectives as stated in the RTF Scope	PRS/RTF
• 3/23/17 – Transmission Loss Factors – inclusion of Transmission Losses in Real-Time Settlement and in transmission planning criteria	WMS/ROS
• 11/30/17 – Review submission of TDSP read meter data for Loads with Interval Data Recorder (IDR) Meters and Non-Modeled Distributed Generators with Interval Data Recorders prior to Initial settlement of an Operating Day (Settlement – WMS)	WMS
• 5/24/18 – ERCOT to report on DC Tie curtailments under NPRR818	WMS/ERCOT
• 1/30/19 – Address battery energy storage integration issues	TAC/BESTF
• 3/27/19 – Real-Time Co-optimization Task Force (RTCTF) – Accomplish objectives as stated in the RTCTF Charter	TAC/RTCTF
• 5/22/19 – Review DC Tie Treatment in Relation to Load (i.e. being treated as firm Load)	WMS
• 5/22/19 – Methodology used to determine Peaker Net Margin	WMS
• 5/22/19 – Review of Protocols in relation to use of “Emergency Condition”	WMS/ROS

<u>Summer Assessment Open Action Items (Assigned 11/20/19)</u>	<u>Responsible Party</u>
<ul style="list-style-type: none"> • Switchable Generation Resources (SWGRs): <ul style="list-style-type: none"> ○ Make sure settlement, operator interaction and offers align with the intent of the Protocols and intended market design. ○ If necessary, propose changes to the Protocols ○ Exelon Items 	ROS/WMS
<ul style="list-style-type: none"> • Emergency Response Service (ERS): <ul style="list-style-type: none"> ○ Reliability deployment price adder ramp. ○ Crossover between procurement time periods and calculation of the adder. ○ Self-deployment of ERS. ○ Communicating ERS Deployment 	ROS/WMS
<ul style="list-style-type: none"> • Credit/Collateral for QSE representing Resource only. <ul style="list-style-type: none"> ○ The potential default of a QSE representing a Resource instead of a trader only or Customer Load has raised some potential gaps/policy considerations for improvement. (e.g. should a generator be taken out of markets during tight conditions?) 	CWG/MCWG
<ul style="list-style-type: none"> • Revert to previous usage of Operating Condition Notices (OCNs) for projected reserve capacity shortage being issued when there is a projected shortage of 	ROS/WMS

<p>available capacity, rather than committed capacity, for a future hour.</p> <ul style="list-style-type: none"> ○ An NPRR is not needed, although this change is addressed in NPRR974, as endorsed by PRS. 	
<ul style="list-style-type: none"> • Continue improvement on gas pipeline/gas generator coordination. <ul style="list-style-type: none"> ○ Draft NPRR in development to document good faith coordination for Summer preparedness. 	GEWG
<ul style="list-style-type: none"> • Evaluate current TCEQ enforcement discretion process and look for improvements with managing potential emission limitation issues. 	WMS
<ul style="list-style-type: none"> • Process for Summer demand response study. <ul style="list-style-type: none"> ○ Continue work with stakeholders to get the best available information to the PUCT in a more timely manner as part of the Summer assessment. Currently the timing of data limits the October analysis to an approximation based on the preceding year. 	RMS/ROS/WMS
<ul style="list-style-type: none"> • Non-Frequency Responsive Capacity (NFRC) versus Physical Responsive Capability (PRC) reserves when Gen RRS is released. <ul style="list-style-type: none"> ○ Accessing capacity by system-value has had some challenges relative to the current market design. 	ROS
<ul style="list-style-type: none"> • Review of Resource Adequacy forecasts and development of a Net Load forecast. 	WMS