**AGENDA**

**ERCOT Reliability Operations Subcommittee (ROS) Meeting**

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

**Thursday, March 5, 2020 / 9:30 a.m.**

[**http://ercot.webex.com**](http://ercot.webex.com)

Meeting Number: 626 531 855

Meeting Password: ROS

Teleconference: 1.877.668.4493

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Antitrust Admonition | K. Bunch | 9:30 a.m. |
| 2. | Agenda Review | K. Bunch |  |
| 3. | **Approval of ROS Meeting Minutes (Vote)** | K. Bunch | 9:35a.m. |
|  | * **February 6, 2020** |  |  |
| 4. | Technical Advisory Committee (TAC) Update | K. Bunch | 9:40 a.m. |
| 5. | 2020 ROS Goals (Possible Vote) | K. Bunch | 9:45 a.m. |
| 6. | ERCOT Reports |  | 9:50 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | J. Billo |  |
|  | * Inverter-Based Resources Update | F. Huang |  |
| 7. | Battery Energy Storage Task Force (BESTF) Update | K. Ragsdale | 10:25 a.m. |
|  | * White Paper Revised KTC-10: ESR –Study and Capacity Assumptions |  |  |
|  | * Outage Coordination Studies |  |  |
|  | * Operational Studies |  |  |
|  | * Transmission Planning Studies |  |  |
| 8. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | K. Bunch | 10:40 a.m. |
|  | * **NPRR994, Clarify Generator Interconnection Neutral Project Classification** |  |  |
| 9. | **ROS Revision Requests (Vote)** | K. Bunch | 10:55 a.m. |
|  | ***Impact Analysis Review*** |  |  |
|  | * **NOGRR200, Delete Remaining Grey-Boxed Language Associated with NOGRR025, Monitoring Programs for QSEs, TSPs, and ERCOT** |  |  |
|  | * **NOGRR205, Clarification to Grey-boxed Language in Section 4.8.1** |  |  |
|  | ***Language Review*** |  |  |
|  | * **PGRR078, Market Data Transparency Update for Planning Postings** |  |  |
| 10. | Revision Requests Tabled at ROS (Possible Vote) | K. Bunch | 11:15 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
| 11. | Network Data Support Working Group (NDSWG) | J. Yatar | 11:25 a.m. |
|  | * NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols (NDSWG) (Possible Vote) |  |  |
|  | * NOGRR199, Related to NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols (NDSWG) (Possible Vote) |  |  |
| 12. | Operations Working Group (OWG) | R. Floyd | 11:40 a.m. |
|  | * NOGRR195, Generator Voltage Control Tolerance Band (OWG) (VPWG) (Possible Vote) |  |  |
|  | * NPRR989, BESTF-1 Energy Storage Resource Technical Requirements (OWG/PDCWG) (Possible Vote) |  |  |
|  | * NOGRR204, Related to NPRR989, BESTF-1 Energy Storage Resource Technical Requirements (OWG) (PDCWG) (Possible Vote) |  |  |
| 13. | Performance Disturbance Compliance Working Group (PDCWG) | C. Mulholland | 12:00 p.m. |
|  | * NPRR987, BESTF-3 Energy Storage Resource Contribution to Physical Responsive Capability and Real-Time On-Line Reserve Capacity Calculations (PDCWG) (Possible Vote) |  |  |
| 14. | Planning Working Group (PLWG) | T. Cook | 12:20 p.m. |
|  | * PGRR076, Improvements to Generation Resource Interconnection or Change Request (GINR) Process (PLWG) (Possible Vote) |  |  |
|  | * PGRR077, DC Tie Planning Assumptions (PLWG) (Possible Vote) |  |  |
| 15. | Dynamic Working Group (DWG) | R. Egunjobi | 12:50 p.m. |
| 16. | Operations Training Group (OTWG) | T. Chilton | 1:00 p.m. |
|  | * **OTWG Scope (Vote)** |  |  |
| 17. | Other Business | K. Bunch | 1:15 p.m. |
|  | * GTC Workshop Update | D. Woodfin |  |
|  | * DGR Workshop IV Update | Blevins/Stice |  |
|  | * Reactive Power Coordination (RPC) Workshop Update | S. Solis |  |
|  | * Review Open Action Items |  |  |
|  | * No Report: |  |  |
|  | * + Black Start Working Group (BSWG) |  |  |
|  | * + Planning Geomagnetic Disturbance Task Force (PGDTF) |  |  |
|  | * + System Protection Working Group (SPWG) |  |  |
|  | * + Steady State Working Group (SSWG) |  |  |
|  | * + Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | K. Bunch | 1:30 p.m. |
|  | Future ROS Meetings |  |  |
|  | * April 2, 2020 |  |  |
|  | * May 7, 2020 |  |  |

| Open Action Items | Responsible | Assigned |
| --- | --- | --- |
| Inverter-Based Resource Issue 3, Voltage Ride through | DWG | 07/11/2019 |
| Inverter-Based Resource Issue 4, Dynamic Models | DWG | 07/11/2019 |
| ERCOT Nodal ICCP Communication Handbook – update to include review of what is binding and what is nonbinding, consider what is in reference material, OBD and Operating Guide, and then figure out repository | NDSWG | 05/02/2019  04/04/2019 |
| TAC Assignment: Reliability considerations regarding Outage Activity Related to Operating Condition Notice (OCN) | OWG to look at Operating Guides to confirm consistent after WMS/WMWG review the issues | 07/11/2019 |
| Evaluating and improving ERCOT’s Dynamic Frequency Response Model | PDCWG | 07/11/2019 |
| *Southern Cross Directives*  SCT Directive 3: Determination of Ramp Rate Restrictions  Directive 9, Ancillary Services   * Issues related to study of frequency overshoot and LRs UFR setting * Margin between min RRS Procurement & Contingency Reserve Requirements   Address issues related to NSRS and Regulation Service | ROS  PDCWG  DWG  OWG/PDCWG  PDCWG | 03/07/2019 |
| TAC Assignment: Summer Assessment Items   * Switchable Generation Resources (SWGRs) with Exelon items * Emergency Response Service (ERS) * Process for Summer demand response study (RMS,WMS then ROS) * Non-Frequency Responsive Capacity (NFRC) versus Physical Responsive Capability (PRC) reserves when Gen RRS is released | OWG  OWG  ROS  PDCWG | 12/05/2019 |