**AGENDA**

**ERCOT Reliability Operations Subcommittee (ROS) Meeting – by WebEx Only**

**Thursday, June 4, 2020 / 9:30 a.m.**

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

Meeting Number: 126 298 9751

Meeting Password: ROS

Teleconference: 1.877.668.4493

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| 1. | Antitrust Admonition | K. Bunch | 9:30 a.m. |
| 2. | Agenda Review | K. Bunch |  |
| 3. | Technical Advisory Committee (TAC) Update | K. Bunch | 9:40 a.m. |
| 4. | **Approval of ROS Meeting Minutes (Vote)** | K. Bunch |  |
|  | * **February 6, 2020** |  |  |
| 5. | Texas RE Assessment of Reliability Performance | TRE Staff | 9:45 a.m. |
| 6. | ERCOT Reports |  | 10:15 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | J. Billo |  |
|  | * Distributed Generation (DG) and IEEE-1547 Studies | B. Blevins |  |
| 7. | OBDRR021, Correction to Calculation in Procedure for Calculating Responsive Reserve (RRS) Limits for Individual Resources (Possible Vote) | N. Mago | 10:50 a.m. |
| 8. | Revision Requests Tabled at PRS, Referred to ROS (Possible Vote) | K. Bunch | 11:05 a.m. |
|  | * NPRR994, Clarify Generator Interconnection Neutral Project Classification |  |  |
|  | * NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols |  |  |
| 9. | **ROS Revision Requests (Vote)** | K. Bunch | 11:15 a.m. |
|  | ***Impact Analysis Review*** |  |  |
|  | * **PGRR076, Improvements to Generation Resource Interconnection or Change Request (GINR) Process** |  |  |
|  | * **PGRR078, Market Data Transparency Update for Planning Postings** |  |  |
|  | * **PGRR080, Updated Responsibilities for Performing GMD Vulnerability Assessments** |  |  |
|  | ***Language Review*** |  |  |
|  | * **NOGRR207, Related to NPRR1001, Clarification of Definitions of Operating Condition Notice, Advisory, Watch, Emergency Notice, and Related Clarifications siting with 1001 here** |  |  |
|  | * **NOGRR212, Related to NPRR1016, Clarify Requirements for Distribution Generation Resources (DGRs) and Distribution Energy Storage Resources (DESRs)** * **RRGRR026, Related to NPRR1016, Clarify Requirements for Distribution Generation Resources (DGRs) and Distribution Energy Storage Resources (DESRs)** * **NOGRR214, Geomagnetic Disturbance (GMD) Measurement Data Reporting** |  |  |
| 10. | Revision Requests Tabled at ROS (Possible Vote) | K. Bunch | 11:35 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * PGRR077, DC Tie Planning Assumptions |  |  |
|  | * NOGRR195, Generator Voltage Control Tolerance Band |  |  |
|  | * NOGRR199, Related to NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols |  |  |
| 11. | Operations Working Group (OWG) | R. Floyd | 11:55 a.m. |
|  | * NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions (Possible Vote) |  |  |
|  | * NOGRR208, Related to NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions (Possible Vote) |  |  |
|  | * RRGRR023, Related to NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions (Possible Vote) |  |  |
|  | * NOGRR209, Related to NPRR1003, Elimination of References to Resource Asset Registration Form (Possible Vote) |  |  |
|  | * RRGRR024, Related to NPRR1003, Elimination of References to Resource Asset Registration Form (Possible Vote) |  |  |
|  | * PGRR079, Related to NPRR1003, Elimination of References to Resource Asset Registration Form (Possible Vote) |  |  |
|  | * NOGRR211, RTC – NOG 2 and 9: System Operations and Control Requirements and Monitoring Programs (Possible Vote) |  |  |
| 12. | Voltage Profile Working Group (VPWG) | B. Mathew | 12:25.m. |
|  | * NOGRR210, Related to NPRR1005, Clarify Definition of Point of Interconnection (POI) and Add Definition Point of Interconnection Bus (POIB) (OWG)(VPWG) (Possible Vote) |  |  |
|  | * RRGRR025, Related to NPRR1005, Clarify Definition of Point of Interconnection (POI) and Add Definition Point of Interconnection Bus (POIB) (OWG) (VPWG) (Possible Vote) |  |  |
| 13. | Dynamic Working Group (DWG) | R. Egunjobi | 12:35 p.m. |
| 14. | Network Data Support Working Group (NDSWG ) | J. Yatar | 12:45 p.m. |
| 15. | Steady State Working Group (SSWG) | N. Khan | 12:55 p.m. |
| 16. | Other Business | K. Bunch | 1:05 p.m. |
|  | * May 28 MIS Sandbox Release | A. Hale |  |
|  | * Review Open Action Items |  |  |
|  | * No Report: |  |  |
|  | * + Black Start Working Group (BSWG) |  |  |
|  | * + Operations Training Group (OTWG)   + Performance Disturbance Compliance Working Group (PDCWG) |  |  |
|  | * + Planning Geomagnetic Disturbance Task Force (PGDTF) |  |  |
|  | * + Planning Working Group (PLWG) |  |  |
|  | * + System Protection Working Group (SPWG ) |  |  |
|  | Adjourn | K. Bunch | 1:10 p.m. |
|  | Future ROS Meetings |  |  |
|  | * July 9, 2020 |  |  |
|  | * August 6, 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 review 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 3/5/2020 ROS Information Session OWG reported TAC/ROS/OWG assignment completed – Pending is ROS Leadership need to report to TAC at next in person meeting then remove * Emergency Response Service (ERS)   3/5/2020 ROS Information Session OWG reported TAC/ROS/OWG assignment completed – Pending is ROS Leadership need to report to TAC at next in person meeting then remove   * 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 | ROS  ROS  ROS  PDCWG | 12/05/2019 |
| Develop Methodology for ESR and below studies as requested by Battery Energy Storage Task Force (BESTF)   * Outage Coordination Studies – OWG * Operational Studies – PLWG/OWG * Transmission Planning Studies – PLWG/OWG | OWG/PLWG | 03/05/2020 |