**AGENDA**

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

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

**Thursday, January 9, 2019 / 9:30 a.m.**

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

Meeting Number: 629 808 759

Meeting Password: ROS

Teleconference: 1.877.668.4493

|  |  |  |  |
| --- | --- | --- | --- |
|  1. | Antitrust Admonition | S. Clifton |  9:30 a.m. |
|  2.  | Membership Introductions | S. Clifton |  |
|  3.  | **Election of 2020 ROS Chair and Vice Chair (Vote)** | S. Clifton  | 9:35 a.m.  |
|  4. | Agenda Review | ROS Chair |  |
|  5.  | **Approval of ROS Meeting Minutes (Vote)** | ROS Chair | 9:40 a.m.  |
|  | * **November 7, 2019**
* **December 5, 2019**
 |  |  |
|  6. | Technical Advisory Committee (TAC) Update | ROS Chair |  9:45 a.m.  |
|  | * *TAC did not meet in December 2019*
 |  |  |
|  7. | ERCOT Reports |  |  9:45 a.m.  |
|  | * Operations Report
 | ERCOT Staff |  |
|  | * System Planning Report
 | J. Billo |  |
|  | * Inverter-Based Resources Update
 | J. Billo |  |
|  8. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | ROS Chair | 10:00 a.m.  |
|  | * *No referrals from December 12, 2019 PRS Meeting*
 |  |  |
|  9. | Revision Requests Tabled at PRS, Referred to ROS (Possible Vote) | ROS Chair | 10:00 a.m.  |
|  | * NPRR953, Addition of Relay Loadability Rating Definition
 |  |  |
|  | * NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols (NDSWG)
 |  |  |
|  10. | **ROS Revision Requests (Vote)**  | ROS Chair |  10:20 a.m.  |
|  | ***Impact Analysis Review***  |  |  |
|  | * **NOGRR183, Remedial Action Scheme (RAS) Submittal and Review Requirements**
 |  |  |
|  | ***Language Review***  |  |  |
|  | * **NOGRR202, Align Nodal Operating Guide with the Posting Timeline in Procedure for Calculating Responsive Reserve (RRS) Limits for Individual Resources**
 |  |  |
|  | * **NOGRR204, Related to NPRR989, BESTF-1 Energy Storage Resource Technical Requirements**
 |  |  |
|  11. | Revision Requests Tabled at ROS (Possible Vote) | ROS Chair |  10:45 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions
 |  |  |
|  | * NOGRR199, Related to NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols (NDSWG)
 |  |  |
|  | * NOGRR200, Delete Remaining Grey-Boxed Language Associated with NOGRR025, Monitoring Programs for QSEs, TSPs, and ERCOT
 |  |  |
|  12. | Notice of Withdrawal | ROS Chair | 11:10 a.m. |
|  | * NOGRR190, Related to NPRR937, Distribution Voltage Level Block Load Transfer (BLT) Deployment
 |  |  |
|  13. | Operations Working Group (OWG) | R. Floyd  | 11:15 a.m.  |
|  | * NOGRR195, Generator Voltage Control Tolerance Band (OWG) (VPWG) (Possible Vote)
 |  |  |
|  | * RRGRR021, Dynamic Model Requirement for TSAT (DWG) (OWG) (Possible Vote)
 |  |  |
|  14. | Planning Working Group (PLWG) | T. Cook | 11:35 a.m.  |
|  | * NPRR973, Add Definitions for Generator Step-Up and Main Power (PLWG) (Possible Vote)
 |  |  |
|  | * NOGRR196, Related to NPRR973, Add Definitions Generator Step-Up and Main Power Transformer (PLWG) (Possible Vote)
 |  |  |
|  | * PGRR074, Related to NPRR973, Add Definitions Generator Step-Up and Main Power Transformer (Possible Vote)
 |  |  |
|  | * RRGRR022, Related to NPRR973, Add Definitions Generator Step-Up and Main Power Transformer (Possible Vote)
 |  |  |
|  | * PGRR075, Dynamic Model Quality Requirement (DWG/PLWG) (Possible Vote)
 |  |  |
|  | * PGRR076, Improvements to Generation Resource Interconnection or Change Request (GINR) Process (Possible Vote)
 |  |  |
|  15. | Steady State Working Group (SSWG) | B. Hithersay | 11:50 a.m.  |
|  | * **SSWG Procedure Manual (Vote)**
 | T. Richmond |  |
|  16. | Performance Disturbance Compliance Working Group (PDCWG) | C. Mulholland |  12:00 p.m. |
|  17. | Dynamics Working Group (DWG) | C. Minchew  | 12:15 p.m. |
|  18. | Black Start Working Group (BSWG) |  |  12:30 p.m.  |
|  19.  | System Protection Working Group (SPWG) | M. Davis |  12:35 p.m.  |
|  20. | Other Business | ROS Chair |  12:45 p.m.  |
|  | * DGR Workshop I and II
 | Blevins/Stice |  |
|  | * Reactive Power Coordination (RPC) Workshop
 | S. Solis |  |
|  | * Review Open Action Items
 |   |  |
|  | * 2020 ROS Goals
 |  |  |
|  | * 2020 ROS Working Group/Task Force Leadership
 |  |  |
|  | * No Report:
 |  |  |
|  | * + Network Data Support Working Group (NDSWG)
 |  |  |
|  | * + Operations Training Group (OTWG)
 |  |  |
|  | * + Voltage Profile Working Group (VPWG)
 |  |  |
|  | Adjourn | ROS Chair |  1:00 p.m.  |
|  |  |  |  |
|  | Future ROS Meetings |  |  |
|  | * February 6, 2020
 |  |  |
|  | * March 5, 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 | 05/02/201904/04/2019 |
| 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 RestrictionsDirective 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 PDCWGDWGOWG/PDCWGPDCWG | 03/07/2019 |
| TAC Assignment: Summer Assessment Items1. Switchable Generation Resources (SWGRs) with Exelon items2. Emergency Response Service (ERS)7. Process for Summer demand response study8. Non-Frequency Responsive Capacity (NFRC) versus Physical Responsive Capability (PRC) reserves when Gen RRS is released  | OWGOWGROSPDCWG | 12/05/2019Conclude at RMS, then WMS, then ROS |