**AGENDA**

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

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

**Thursday, December 5, 2019 / 9:30 a.m.**

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

Meeting Number: 620 156 748

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. | **Approval of ROS Meeting Minutes (Vote)** | K. Bunch | 9:35 a.m. |
|  | * **November 7, 2019** |  |  |
| 4. | Technical Advisory Committee (TAC) Update | K. Bunch | 9:40 a.m. |
|  | * Summer Assessment Items |  |  |
| 5. | ERCOT Reports |  | 9:45 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | F. Huang |  |
|  | * Inverter-Based Resources Update | F. Huang |  |
| 6. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | K. Bunch | 10:00 a.m. |
|  | * **NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols** |  |  |
| 7. | Revision Requests Tabled at PRS, Referred to ROS (Possible Vote) | K. Bunch | 10:20 a.m. |
|  | * NPRR953, Addition of Relay Loadability Rating Definition |  |  |
| 8. | **ROS Revision Requests (Vote)** | K. Bunch | 10:30 a.m. |
|  | *Impact Analysis Review (None)* |  |  |
|  | ***Language Review*** |  |  |
|  | * **NOGRR199, Remedial Action Scheme (RAS) Submittal and Review Requirements** |  |  |
|  | * **NOGRR200, Delete Remaining Grey-Boxed Language Associated with NOGRR025, Monitoring Programs for QSEs, TSPs, and ERCOT** |  |  |
| 9. | Revision Requests Tabled at ROS (Possible Vote) | K. Bunch | 10:40 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
| 10. | Operations Working Group (OWG) | R. Floyd | 10:55 a.m. |
|  | * NPRR955, Define Limited Impact Remedial Action Scheme (RAS) (OWG) (Possible Vote) |  |  |
|  | * NOGRR183, Remedial Action Scheme (RAS) Submittal and Review Requirements (PLWG/OWG) (Possible Vote) |  |  |
|  | * NOGRR190, Related to NPRR937, Distribution Voltage Level Block Load Transfer (BLT) Deployment (OWG) (Possible Vote) |  |  |
|  | * NOGRR195, Generator Voltage Control Tolerance Band (OWG) (VPWG) (Possible Vote) |  |  |
|  | * RRGRR021, Dynamic Model Requirement for TSAT (DWG) (OWG) (Possible Vote) |  |  |
| 11. | Planning Working Group (PLWG) | T. Cook | 11:15 a.m. |
|  | * NPRR973, Add Definitions for Generator Step-Up and Main Power (OWG/PLWG) (Possible Vote) |  |  |
|  | * NOGRR196, Related to NPRR973, Add Definitions Generator Step-Up and Main Power Transformer (OWG/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) |  |  |
| 12. | Operations Training Working Group (OTWG) | T. Chilton | 11:30 a.m. |
| 13. | Performance Disturbance Compliance Working Group (PDCWG) | C. Mulholland | 11:40 a.m. |
| 14. | Steady State Working Group (SSWG) | B. Hithersay | 11:50 a.m. |
| 15. | Planning Geomagnetic Disturbance Task Force (PGDTF) | A. Amahatsion | 12:00 p.m. |
| 16. | Dynamics Working Group (DWG) | C. Minchew | 12:20 p.m. |
| 17. | Other Business | K. Bunch | 12:45 p.m. |
|  | * Review Open Action Items |  |  |
|  | * No Report: |  |  |
|  | * + Black Start Working Group (BSWG) |  |  |
|  | * + Network Data Support Working Group (NDSWG) |  |  |
|  | * + System Protection Working Group (SPWG) |  |  |
|  | * + Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | K. Bunch | 1:00 p.m. |
|  | Future ROS Meetings |  |  |
|  | * January 9, 2020 |  |  |
|  | * February 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 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 |