**AGENDA**

**ERCOT Reliability Operations Subcommittee (ROS) Meeting by Webex Only**

**Thursday, January 7, 2021 / 9:30 a.m.**

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 126 908 6519

Password: Hr363

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|  | Validation and ROS Standing Representatives | S. Clifton | 9:15 a.m. |
| 1. | Antitrust Admonition | S. Clifton | 9:30 a.m. |
| 2. | Membership Introductions | S. Clifton |  |
| 3. | **Election of 2021 ROS Chair and Vice Chair (Vote)** | S. Clifton | 9:35 a.m. |
| 4. | Agenda Review | ROS Chair |  |
| 5. | TAC/Subcommittee Stakeholder Process Overview | P. Bracy | 9:40 a.m. |
| 6. | **Approval of ROS Meeting Minutes (Vote)** | ROS Chair | 10:00 a.m. |
|  | * **November 5, 2020** * **December 3, 2020** |  |  |
| 7. | ERCOT Reports |  | 10:05 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | P. Yan |  |
|  | * Generic Transmission Constraint (GTC) Update | ERCOT Staff |  |
| 8. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | ROS Chair | 10:20 a.m. |
|  | * **NPRR1056, Market Impact Generic Transmission Constraint (GTC) Notification** |  |  |
| 9. | Revision Requests Tabled at PRS, Referred to ROS (Possible Vote) | ROS Chair | 10:35 a.m. |
|  | * NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols |  |  |
| 10. | **ROS Revision Requests (Vote)** | ROS Chair | 10:40 a.m. |
|  | ***Impact Analysis Review*** |  |  |
|  | * **PGRR085, Dynamic Model Improvements** |  |  |
|  | ***Language Review*** |  |  |
|  | * **RRGRR028, Transformer Impedance Clarifications** | J. Karlik |  |
| 11. | Revision Requests Tabled at ROS (Possible Vote) | ROS Chair | 10:50 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 |  |  |
| 12. | Operations Working Group (OWG) | R. Floyd | 11:00 a.m. |
|  | * NOGRR215, Limit Use of Remedial Action Schemes (Possible Vote) |  |  |
|  | * NPRR1045, Transmission Operator Definition and Designation (Possible Vote) |  |  |
|  | * NOGRR219, Related to NPRR1045, Transmission Operator Definition and Designation (Possible Vote) |  |  |
| 13. | Planning Working Group (PLWG) | T. Cook | 11:15 a.m. |
|  | * PGRR088, Include Financial Security Amount in the Monthly Generator Interconnection Status Report (Possible Vote) |  |  |
| 14. | Performance Disturbance Compliance Working Group (PDCWG) | C. Mulholland | 11:30 p.m. |
|  | * OBDRR025, Clarification for the RRS Limit on Individual Non-Thermal Generation Resources (Possible Vote) |  |  |
| 15. | Steady State Working Group (SSWG) | N. Khan | 11:45 a.m. |
|  | * **SSWG Procedure Manual (Vote)** |  |  |
| 16. | **Combo Ballot (Vote)** | ROS Chair | 12:00 p.m. |
| 17. | Dynamic Working Group (DWG) | R. Egunjobi | 12:05 p.m. |
| 18. | Network Data Support Working Group (NDSWG) | J. Yatar | 12:15 p.m. |
| 19. | Black Start Working Group (BSWG) | T. Kroskey | 12:25 p.m. |
| 20. | Operations Training Working Group (OTWG) | T. Chilton | 12:30 p.m. |
| 21. | Other Business | ROS Chair | 12:40 p.m. |
|  | * Resource Integration Group | ERCOT Staff |  |
|  | * 2021 ROS Goals |  |  |
|  | * 2021 ROS Working Group and Task Force Leadership |  |  |
|  | * Review Open Action Items |  |  |
|  | * No Report: |  |  |
|  | * + Planning Geomagnetic Disturbance Task Force (PGDTF) |  |  |
|  | * + System Protection Working Group (SPWG) |  |  |
|  | * + Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | ROS Chair | 12:50 p.m. |
|  | Future ROS Meetings |  |  |
|  | * February 4, 2021 |  |  |
|  | * March 4, 2021 |  |  |

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| 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 |
| Review the total amount of RRS and PFR that can come from Energy Storage Resources (ESRs), and with ERCOT determine if there will be any limits applied to ESRs so that Stakeholders can identify restrictions applicable to developing projects | PDCWG | 11/05/2020 |
| 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 |
| ROS Assignments from 08/21/2020 Transmission for Generation Workshop:   * Joint Meeting with OWG/CMWG * ERCOT requested stakeholders provide ideas on non-discriminatory criteria that could be used to allow a limited number of RASs and avoid ERCOT’s identified concerns * Stakeholders requested ERCOT provide historic information on RAS mis-operations and failures to operate | OWG | 09/03/2020 |
| *Southern Cross Directives*  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  DWG  OWG/PDCWG  PDCWG | 03/07/2019 |
| TAC Assignment: Summer Assessment Items   * Non-Frequency Responsive Capacity (NFRC) versus Physical Responsive Capability (PRC) reserves when Gen RRS is released | PDCWG | 12/05/2019 |