**AGENDA**

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

**Thursday, January 6, 2022 / 9:30 a.m.**

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2556 175 8270

Password: C3m92G

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|  | Validation for ROS Standing Representatives | Suzy Clifton | 9:15 a.m. |
| 1. | Antitrust Admonition | Suzy Clifton | 9:30 a.m. |
| 2. | Membership Introductions | Suzy Clifton |  |
| 3. | **Election of 2022 ROS Chair and Vice Chair (Vote)** | Suzy Clifton | 9:35 a.m. |
| 4. | Agenda Review | ROS Leadership |  |
| 5. | **Approval of ROS Meeting Minutes (Vote)** | ROS Leadership |  |
|  | * **November 4, 2021** |  |  |
|  | * **December 2, 2021** |  |  |
| 6. | ERCOT Reports |  | 9:50 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | Ping Yan |  |
|  | * TSAT Model Update | Mehdi Daryabak |  |
|  | * Inverter Based Resources Task Force (IBRTF) | ERCOT Staff |  |
| 7. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | ROS Leadership | 10:20 a.m. |
|  | * **NPRR1110, Black Start Requirements Update** |  |  |
|  | * **NPRR1111, Related to SCR819, Improving IRR Control to Manage GTC Stability Limits - Urgent** * **SCR819, Improving IRR Control to Manage GTC Stability Limits - Urgent** |  |  |
| 8. | SCR820, Operator Real-Time Messaging During Emergency (Possible Vote) | ROS Leadership | 10:50 a.m. |
| 9. | **ROS Revision Requests (Vote)** | ROS Leadership | 11:00 a.m. |
|  | ***Impact Analysis Review*** |  |  |
|  | * **PGRR099, Revise GIM Process to Ensure Compliance with the Lone Star Infrastructure Protection Act** |  |  |
|  | * **NOGRR234, Related to NPRR1098, Direct Current Tie (DC Tie) Reactive Power Capability Requirements (Possible Vote)** |  |  |
|  | ***Language Review*** |  |  |
|  | * **PGRR100, Steady-State Case Building Timeline Update** |  |  |
| 10. | Revision Requests Tabled at ROS (Possible Vote) | ROS Leadership | 11:20 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * NOGRR230, WAN Participant Security |  |  |
|  | Break |  | 11:20 a.m. |
| 11. | Planning Working Group (PLWG) | Charles DeWitt | 11:30 a.m. |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote) |  |  |
|  | * PGRR095, Establish Minimum Deliverability Criteria (Possible Vote) |  |  |
|  | * PGRR096, Achieve Consistent Representation of Distributed Generation in Steady-State Models (PLWG) (SSWG) (Possible Vote) |  |  |
|  | * PGRR098 Consideration of Load Shed in Transmission Planning Criteria (Possible Vote) |  |  |
| 12. | Steady State Working Group (SSWG) | Chenyan Guo | 11:50 a.m. |
|  | * **SSWG Procedure Manual (Vote)** |  |  |
| 13. | Operations Working Group (OWG) | Rickey Floyd | 12:00 p.m. |
|  | * NPRR1084, Improvements to Reporting of Resource Outages and Derates (Possible Vote) |  |  |
|  | * NPRR1085, Ensuring Continuous Validity of Physical Responsive Capability (PRC) and Dispatch through Timely Changes to Resource Telemetry and Current Operating Plans (COPs) (OWG, PDCWG) (Possible Vote) |  |  |
|  | * NPRR1100, Emergency Switching Solutions for Energy Storage Resources (Possible Vote) |  |  |
|  | * NOGRR215, Limit Use of Remedial Action Schemes (Possible Vote) |  |  |
|  | * NOGRR226, Revision to 5% Transmission Operator (TO) Load Shedding Relay Point (DWG, OWG, PDCWG) (Possible Vote) |  |  |
| 14. | Performance Disturbance Compliance Working Group (PDCWG) | Chad Mulholland | 12:10 p.m. |
|  | * NPRR1096, Require Sustained Six Hour Capability for ECRS and Non-Spin (Possible Vote) |  |  |
| 15. | Dynamics Working Group (DWG) | Sam Jung | 12:20 p.m. |
| 16. | **Combo Ballot (Vote)** | ROS Leadership | 12:30 p.m. |
| 17. | Black Start Working Group (BSWG) | Tony Kroskey | 12:35 p.m. |
| 18. | Operations Training Working Group (OTWG) | Tamme Chilton | 12:40 p.m. |
| 19. | System Protection Working Group (SPWG) | Vincent Roberts | 12:45 p.m. |
| 20. | Notice of Withdrawal | ROS Leadership | 12:50 p.m. |
|  | * PGRR097, Related to NPRR1098, Direct Current Tie (DC Tie) Reactive Power Capability Requirements (Possible Vote) |  |  |
| 21. | Other Business | ROS Leadership | 12:50 p.m. |
|  | * 2022 ROS Goals |  |  |
|  | * 2022 Working Group and Task Force Leadership |  |  |
|  | * Review Open Action Items List |  |  |
|  | * No Report: |  |  |
|  | * + Network Data Support Working Group (NDSWG) |  |  |
|  | * + Planning Geomagnetic Disturbance Task Force (PGDTF) |  |  |
|  | * + Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | ROS Leadership | 1:00 p.m. |
|  | Future ROS Meetings |  |  |
|  | * February 3, 2022 |  |  |
|  | * March 3, 2022 |  |  |

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| Open Action Items | Responsible | Assigned |
| Inverter-Based Resource Issue 3, Voltage Ride through | 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  Update: effort restarted and being reviewed next few meetings | NDSWG | 04/01/2021 Update  05/02/2019  04/04/2019 |
| 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 |
| 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 |
| TAC Assignment: Following the 12/16/21 PUCT approval of NPRR1105, Option to Deploy Distribution Voltage Reduction Measures Prior to Energy Emergency Alert (EEA), review and evaluate the effectiveness and criteria to use when deploying voltage reduction before EEA | OWG | 12/02/2021 |
| TAC Assignment: Review the issues raised along with the impacts of OBDRR031 and return to the October 27, 2021 TAC meeting with recommendations:   * Review RRS increase to 2800MW * Assess Impact of Ancillary Service changes over summer/report to TAC * Analyze methodology for determining Non-Spinning Reserve (Non-Spin) requirements and value provided in non-peak times * Account for Responsive Reserve Service (RRS) High Ancillary Service Limit (HASL) release in non-spin deployment * How to define high/med/low variability? * Should Non-Controllable Load Resource (NCLR) be allowed to provide Non-Spin? * Should higher RRS or ERCOT Contingency Reserve Service (ECRS) be procured? * Review the impact to cycling resource before it is really needed in peak summer | PDCWG | 07/08/2021 |
| TAC Assignment: Remaining KTCs from Battery Energy Storage Task Force (BESTF)   * KTC 15-5 Black Start Service * KTC 15-6 RMR and MRA Services * KTC 15-9 Governor Dead-band Telemetry as a Concept | ROS  BSWG  PLWG  PDCWG/DWG | 04/29/2021 |