**AGENDA**

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

ERCOT Austin / 8000 Metropolis Drive (Building E), Suite 100 / Austin, Texas 78744

Thursday, May 5, 2022 / 9:30 a.m.

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2554 089 7106

Password: #dBA62

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|  | Validation for ROS Standing Representatives | Suzy Clifton | 9:15 a.m. |
| 1. | Antitrust Admonition | Katie Rich | 9:30 a.m. |
| 2. | Agenda Review | Katie Rich |  |
| 3. | **Approval of ROS Meeting Minutes (Vote)** | Katie Rich |  |
|  | * **March 3, 2022** |  |  |
|  | * **April 7, 2022** |  |  |
| 4. | Technical Advisory Committee (TAC) Update | Katie Rich |  |
| 5. | ERCOT Reports |  | 9:40 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | Ping Yan |  |
|  | * Generic Transmission Constraint (GTC) Update | Yunzhi Cheng |  |
| 6. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | Katie Rich | 10:05 a.m. |
|  | * **NPRR1127, Clarification of ERCOT Hotline Uses** |  |  |
|  | * **NPRR1128, Allow FFR Procurement up to FFR Limit Without Proration** |  |  |
|  | * **SCR821, Voltage Set Point Target Information for Distribution Generation Resource (DGR) or Distribution Energy Storage Resource (DESR).** |  |  |
| 7. | **ROS Revision Requests (Vote)** | Katie Rich | 10:35 a.m. |
|  | ***Impact Analysis Review*** |  |  |
|  | * **NOGRR240, Direct Current Tie (DC Tie) Ride-Through Requirements** |  |  |
| 8. | Revision Requests Tabled at ROS (Possible Vote) | Katie Rich | 10:45 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * NOGRR230, WAN Participant Security |  |  |
|  | * PGRR100, Steady-State Case Building Timeline Update |  |  |
|  | Break |  | 10:55 a.m. |
| 9. | Planning Working Group (PLWG) | Charles DeWitt | 11:05 a.m. |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote) |  |  |
| 10. | Operations Working Group (OWG) | Rickey Floyd | 11:15 a.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) |  |  |
|  | * NPRR1118, Clarifications to the OSA Process (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) * NOGRR241, Related to NPRR1127, Clarification of ERCOT Hotline Uses (Possible Vote) |  |  |
|  | * Distribution Voltage Reduction | Alex Lee |  |
| 11. | Performance Disturbance Compliance Working Group (PDCWG) | Jimmy Jackson | 11:35 a.m. |
| 12. | Dynamics Working Group (DWG) | Zhenhua Wang | 11:45 a.m. |
| 13. | **Combo Ballot (Vote)** | Katie Rich | 11:55 a.m. |
| 14. | Steady State Working Group (SSWG) | Ross Cloninger | 12:05 p.m. |
| 15. | Black Start Working Group (BSWG) | Rutul Patel | 12:15 p.m. |
| 16. | Inverter Based Resources Task Force (IBRTF) | Mohammad Albaijat | 12:25 p.m. |
| 17. | Network Data Support Working Group (NDSWG) | Kenesha King | 12:35 p.m. |
| 18. | Other Business | Katie Rich | 12:45 p.m. |
|  | * Review Open Action Items List |  |  |
|  | * No Report |  |  |
|  | * Operations Training Working Group (OTWG) |  |  |
|  | * Planning Geomagnetic Disturbance Task Force (PGDTF) |  |  |
|  | * System Protection Working Group (SPWG) |  |  |
|  | * Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | Katie Rich | 1:05 p.m. |
|  | Future ROS Meetings |  |  |
|  | * June 2, 2022 |  |  |
|  | * July 7, 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 |
| Summer Assessment Item: Non-Frequency Responsive Capacity (NFRC) versus Physical Responsive Capability (PRC) reserves when Gen RRS is released | PDCWG | 01/06/2022 |
| PGDTF transition the modeling, maintenance of data, and studies of Geomagnetic Disturbance (GMD) events to PLWG and SSWG, specifically assist in developing updated scope to include Geomagnetic Disturbance Vulnerability Assessment (GMDVA) planning, study processes and future study results to PLWG and SSWG, and modeling responsibilities to ERCOT and PLWG. | PGDTF/SSWG/PLWG | 02/07/2022 |
| Review potential reliability benefits associated with DC Ties and assess if planning criteria changes are needed to realize those benefits. Assignment includes consideration of 1/27/22 PUCT Open meeting discussion relating to the potential addition of interconnection and planning issues associated with DC Ties and lines to an upcoming PUCT rulemaking to implement Senate bill 1281. | PLWG | 02/07/2022 |
| 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: 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 |