**AGENDA**

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

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

Thursday, September 7, 2023 / 9:30 a.m.

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2559 690 0207

Password: m#Bst53

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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 (Possible Vote) | Katie Rich |  |
|  | * July 6, 2023 * August 3, 2023 |  |  |
| 4. | Technical Advisory Committee (TAC) Update | Katie Rich | 9:35 a.m. |
| 5. | ERCOT Reports |  | 9:40 a.m. |
|  | * Operations Report | Alex Lee |  |
|  | * System Planning Report | Ping Yan |  |
|  | * ERCOT 2023 Under-Frequency Load Shed (UFLS) Survey Results | Jake Pedigo |  |
|  | * October 14, 2023 Eclipse Update | Luke Butler |  |
|  | * Transient Security Assessment Tool (TSAT) Model Update | Fred Huang |  |
| 6. | **ROS Revision Requests (Vote)** | Katie Rich | 10:10 a.m. |
|  | ***Impact Analysis*** |  |  |
|  | * **PGRR105, Deliverability Criteria for DC Tie Imports** |  |  |
|  | ***Language Review*** |  |  |
|  | * **PGRR111, Related to NPRR1191, Registration, Interconnection, and Operation of Customers with Large Loads; Information Required of Customers with Loads 25 MW or Greater** |  |  |
|  | * **RRGRR036, Related to NPRR1191, Registration, Interconnection, and Operation of Customers with Large Loads; Information Required of Customers with Loads 25 MW or Greater** |  |  |
|  | * **NOGRR256, Related to NPRR1191, Registration, Interconnection, and Operation of Customers with Large Loads; Information Required of Customers with Loads 25 MW or Greater** |  |  |
|  | * **NOGRR257, Removal of Redundant ERS Reporting Requirement** |  |  |
| 7. | Revision Requests Tabled at ROS (Possible Vote) | Katie Rich | 10:30 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
| 8. | Operations Working Group (OWG) | Theresa Noyes | 10:30 a.m. |
|  | * **Major Transmission Elements (MTE) list (Vote)** | Pushkar Chhajed |  |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote) |  |  |
|  | * NOGRR245, Inverter-Based Resource (IBR) Ride-Through Requirements (OWG, DWG, IBRTF) (Possible Vote) |  |  |
| 9. | Inverter Based Resources Working Group (IBRWG) | Mohammad Albaijat | 10:50 a.m. |
|  | * NOGRR255, High Resolution Data Requirements (OWG) (DWG) (IBRTF) (Possible Vote) |  |  |
| 10. | Dynamics Working Group (DWG | Javier Martinez | 11:00 a.m. |
|  | * **DWG Procedure Manual (Vote)** |  |  |
|  | Break |  | 11:10 a.m. |
| 11. | Planning Working Group (PLWG) | Alex Miller | 11:20 a.m. |
|  | * NPRR1180, Inclusion of Forecasted Load in Planning Analyses (PLWG) (Possible Vote) |  |  |
|  | * PGRR107, Related to NPRR1180, Inclusion of Forecasted Load in Planning Analyses (PLWG) (Possible Vote) |  |  |
|  | * PGRR109, Dynamic Model Review Process Improvement for Inverter-Based Resource (IBR) Modification (PLWG) (IBRWG) (Possible Vote) |  |  |
| 12. | Steady State Working Group (SSWG) | Josh Wichers | 11:35 a.m. |
|  | * PGRR106, Clarify Projects Included in Transmission Project Information and Tracking (TPIT) Report (SSWG) (Possible Vote) |  |  |
|  | * PGRR110, Revision to Accommodate Steady-State Node-Breaker Modeling (SSWG) (Possible Vote) |  |  |
| 13. | Operations Training Working Group (OTWG) | OTWG Leadership | 11:50 a.m. |
|  | * **OTWG Leadership (Vote)** |  |  |
|  | **OTWG Chair: Manuel Sanchez, Oncor Electric Delivery** |  |  |
| 14. | **Combo ballot (Vote)** | Katie Rich | 11:55 a.m. |
| 15. | Network Data Support Working Group (NDSWG) | Aniruddha Khedlekar | 12:00 p.m. |
| 16. | Performance Disturbance Compliance Working Group (PDCWG) | Jimmy Jackson | 12:10 p.m. |
| 17. | Voltage Profile Working Group (VPWG) | Maribel Khayat | 12:20 p.m. |
| 18. | Other Business | Chase Smith | 12:30 p.m. |
|  | * NPRR1198, Congestion Mitigation Using Topology Reconfigurations | Alex Miller |  |
|  | * NOGRR258, Related to NPRR1198, Congestion Mitigation Using Topology Reconfigurations |  |  |
|  | * Review Open Action Items List |  |  |
|  | * No Report |  |  |
|  | * Black Start Working Group (BSWG) |  |  |
|  | * System Protection Working Group (SPWG) |  |  |
|  | Adjourn | Katie Rich | 12:45 p.m. |
|  | Future ROS Meetings |  |  |
|  | * October 5, 2023 |  |  |
|  | * November 2, 2023 |  |  |

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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 |
| 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 |
| TAC Assignment: CSAPR NOx Season Allowance Issues | ROS/WMS | 01/05/2023 |
| TAC Assignment: Calculating Loads/Load Shedding in Real-Time (related to NOGRR243). Awaiting TOs to meet and PUCT rulemaking – for concepts to be brought forward for ROS review. | ROS | 01/05/2023 |
| TAC Assignment: ECRS Follow Up: Setting appropriate volumes for ECRS; duration concerns and battery participation; reasoning for ECRS deployments in operations communications; providing data on aggregate basis prior to 60 day deployment | ROS | 06/27/23 |
| TAC Assignment: ERCOT Load Forecast – review of dashboard information. | ROS | 06/27/23 |