**AGENDA**

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

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

Thursday, November 2, 2023 , 2023 / 9:30 a.m.

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2559 713 9558

Password: UX5c#27

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|  | Validation for ROS Standing Representatives | Suzy Clifton | 9:15 a.m. |
| 1. | Antitrust Admonition | Chase Smith | 9:30 a.m. |
| 2. | Agenda Review | Chase Smith |  |
| 3. | Approval of ROS Meeting Minutes (Possible Vote) |  |  |
|  | * September 7, 2023 |  |  |
|  | * September 14, 2023 |  |  |
|  | * October 5, 2023 |  |  |
| 4. | Technical Advisory Committee (TAC) Update | Chase Smith | 9:35 a.m. |
| 5. | ERCOT Reports |  | 9:40 a.m. |
|  | * Operations Report | Alex Lee |  |
|  | * System Planning Report | Ping Yan |  |
|  | * Proposed Changes to Ancillary Service Methodology for 2024 (Vote) | Nitika Mago |  |
| 6. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | Chase Smith | 10:10 a.m. |
|  | * **NPRR1198, Congestion Mitigation Using Topology Reconfigurations** |  |  |
| 7. | Network Data Support Working Group (NDSWG) | Aniruddha Khedlekar | 10:25 a.m. |
|  | * NOGRR258, Related to NPRR1198, Congestion Mitigation Using Topology Reconfigurations (OWG) (NDSWG) (Possible Vote) |  |  |
| 8. | Operations Working Group (OWG) | Theresa Noyes | 10:40 a.m. |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote) |  |  |
| 9. | Revision Requests Tabled at ROS (Possible Vote) | Chase Smith | 10:55 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * 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 |  |  |
|  | Break |  | 10:55 a.m. |
| 10. | Inverter Based Resources Working Group (IBRWG) | Mohammad Albaijat | 11:05 a.m. |
|  | * NOGRR255, High Resolution Data Requirements (DWG) (IBRWG) (SPWG) (Possible Vote) |  |  |
| 11. | Planning Working Group (PLWG) | Alex Miller | 11:35 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. | Dynamics Working Group (DWG) | Javier Martinez | 11:55 a.m. |
|  | * **DWG Leadership (Vote)**   **Vice Chair:**  **Fahad Qureshi, CenterPoint Energy** |  |  |
|  | * PGRR112, Dynamic Data Model and Full Interconnection Study (FIS) Deadline for Quarterly Stability Assessment (PLWG) (DWG) (Possible Vote) |  |  |
| 13. | **Steady State Working Group (SSWG)** | Josh Wichers | 12:10 p.m. |
|  | * **SSWG Leadership (Vote)** |  |  |
|  | **Vice Chair: William Robertson, CPS Energy** |  |  |
|  | * PGRR106, Clarify Projects Included in Transmission Project Information and Tracking (TPIT) Report (SSWG) (Possible Vote) |  |  |
| 14. | **Black Start Working Group (BSWG)** | BSWG Leadership | 12:25 p.m. |
|  | * **BSWG Leadership (Vote)** |  |  |
|  | **Chair: Michael Dieringer, LCRA** |  |  |
| 15. | **Combo ballot (Vote)** | Chase Smith | 12:30 p.m. |
| 16. | Performance Disturbance Compliance Working Group (PDCWG) | Jimmy Jackson | 12:35 p.m. |
| 17. | Other Business | Chase Smith | 12:45 p.m. |
|  | * 2024 ERCOT Membership/Segment Representative Elections | Suzy Clifton |  |
|  | * Review Open Action Items List |  |  |
|  | * No Report |  |  |
|  | * Black Start Working Group (BSWG) |  |  |
|  | * Operations Training Working Group (OTWG) |  |  |
|  | * System Protection Working Group (SPWG) |  |  |
|  | * Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | Chase Smith | 1:00 p.m. |
|  | Future ROS Meetings |  |  |
|  | * December 7, 2023 |  |  |
|  | * January 8, 2024 |  |  |

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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 |
| Review case build concerns and provide recommendations to ROS/SSWG on handling large Loads to reduce impact and reorganizing the Extraordinaire Dispatch steps. Concepts include:   * Dispatch Diesel and Gas SODGs prior to increasing wind beyond the CDR levels * Reduce LFLs prior to increasing wind beyond CDR levels * Dispatch batteries (currently offline in all cases) prior to increasing wind beyond the CDR levels. | PLWG | 10/05/2023 |
| TAC Assignment: Remaining KTCs from Battery Energy Storage Task Force (BESTF)   * KTC 15-5 Black Start Service * KTC 15-6 RMR and MRA Services   (9/7/23 ROS Meeting - assignment from PLWG to ROS, based on 3/2/23 ROS meeting/PLWG report, and updated review that this item is broader than PLWG, Multiple WGs so remain at ROS)   * KTC 15-9 Governor Dead-band Telemetry as a Concept | ROS  BSWG  ROS  PDCWG/DWG | 04/29/2021  04/29/2021  09/07/2023  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 |