**AGENDA**

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

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

Monday, January 8, 2024 / 9:30 a.m.

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2554 485 6531

Password: cv#75

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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 2024 ROS Chair and Vice Chair (Vote)** | Suzy Clifton |  |
| 4. | Agenda Review | ROS Leadership |  |
| 5. | Approval of ROS Meeting Minutes (Possible Vote) | ROS Leadership |  |
|  | * November 2, 2023 |  |  |
|  | * December 7, 2023 |  |  |
| 6. | ERCOT Reports |  | 9:40 a.m. |
|  | * Operations Report | Alex Lee |  |
|  | * System Planning Report | Ping Yan |  |
|  | * Transient Security Assessment Tool (TSAT) Model Update | ERCOT Staff |  |
|  | * Generic Transmission Constraint (GTC) Update | Yunzhi Cheng |  |
| 7. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | ROS Leadership | 10:10 a.m. |
|  | * **NPRR1210, Next Start Resource Test and Load-Carrying Test Frequency** |  |  |
| 8. | **ROS Revision Requests (Vote)** | ROS Leadership | 10:25 a.m. |
|  | ***Impact Analysis*** |  |  |
|  | * **PGRR109, Dynamic Model Review Process Improvement for Inverter-Based Resource (IBR) Modification** |  |  |
|  | ***Language Review*** |  |  |
|  | * **NOGRR261, Move OBD to Section 8 – Procedure for Calculating RRS Limits for Individual Resources (Waive Notice – Possible Vote)** |  |  |
| 9. | Revision Requests Tabled at ROS (Possible Vote) | ROS Leadership | 10:35 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * 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 |  |  |
|  | * PGRR111, Related to NPRR1191, Registration, Interconnection, and Operation of Customers with Large Loads; Information Required of Customers with Loads 25 MW or Greater |  |  |
|  | * PGRR114, Related to NPRR1212, Clarification of Distribution Service Provider’s Obligation to Provide an ESI ID |  |  |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG, PLWG) (Possible Vote) |  |  |
|  | * NPRR1198, Congestion Mitigation Using Topology Reconfigurations (OWG, NDSWG) |  |  |
|  | * NOGRR258, Related to NPRR1198, Congestion Mitigation Using Topology Reconfigurations (OWG, NDSWG) |  |  |
|  | Break |  | 10:50 a.m. |
| 10. | Inverter Based Resources Working Group (IBRWG) | Mohammad Albaijat | 11:00 a.m. |
|  | * NOGRR255, High Resolution Data Requirements (DWG) (IBRWG) (SPWG) (Possible Vote) |  |  |
| 11. | Dynamics Working Group (DWG) | Javier Martinez | 11:20 a.m. |
| 12. | Planning Working Group (PLWG) | Alex Miller | 11:30 a.m. |
|  | * PGRR107, Related to NPRR1180, Inclusion of Forecasted Load in Planning Analyses (PLWG) (Possible Vote) |  |  |
|  | * PGRR112, Dynamic Data Model and Full Interconnection Study (FIS) Deadline for Quarterly Stability Assessment (PLWG) (DWG) (Possible Vote) |  |  |
|  | * PGRR113, Related to NPRR1198, Congestion Mitigation Using Topology Reconfigurations (PLWG) (Possible Vote) |  |  |
| 13. | Steady State Working Group (SSWG) | Josh Wichers | 12:00 p.m. |
|  | * PGRR106, Clarify Projects Included in Transmission Project Information and Tracking (TPIT) Report (SSWG) (Possible Vote) |  |  |
| 14. | **Combo Ballot (Vote)** | ROS Leadership | 12:10 p.m. |
| 15. | Black Start Working Group (BSWG) | Michael Dieringer | 12:15 p.m. |
| 16. | Operations Training Working Group (OTWG) | Manuel Sanchez | 12:25 p.m. |
| 17. | Performance Disturbance Compliance Working Group (PDCWG) | Jimmy Jackson | 12:35 p.m. |
| 18. | Other Business | ROS Leadership | 12:45 p.m. |
|  | * Implementation of Change in Energy Storage Resource (ESR) Ancillary Service Telemetry | Luis Hinojosa | 12:50 p.m. |
|  | * Revised Revision Request Submission Form and TAC Report Form | Erin Wasik-Gutierrez |  |
|  | * 2024 ROS Goals |  |  |
|  | * 2024 Working Group Leadership |  |  |
|  | * Review Open Action Items List |  |  |
|  | * No Report |  |  |
|  | * Network Data Support Working Group (NDSWG) |  |  |
|  | * Operations Working Group (OWG) |  |  |
|  | * System Protection Working Group (SPWG) |  |  |
|  | * Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | ROS Leadership | 1:00 p.m. |
|  | Future ROS Meetings |  |  |
|  | * February 1, 2024 |  |  |
|  | * March 7, 2024 |  |  |

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| Open Action Items | Responsible | Notes | Assigned |
| 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 | ROS leadership has asked NDSWG leadership for update. Aug 2022 NDSWG meeting appears to be last action on this item since update on 04/01/2021. | 11/02/2023  04/01/2021 Update  05/02/2019  04/04/2019 |
| Evaluating and improving ERCOT’s Dynamic Frequency Response Model | PDCWG | ROS leadership asking PDCWG leadership for update. To extent there are challenges to completing the analysis and/or PDCWG has exhausted its ability to analyze / provide a response, recommend closing this item | 11/02/2023  07/11/2019 |
| Summer Assessment Item: Non-Frequency Responsive Capacity (NFRC) versus Physical Responsive Capability (PRC) reserves when Gen RRS is released | PDCWG | ROS leadership asking PDCWG leadership for update. See Nov 2019 TAC meeting for background, and Dec 2019 ROS for initial referral to PDCWG | 12/05/2019 |
| 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 |
| Request to conduct a focused review with ERCOT Staff, identifying challenges and recommendations in next steps to implement TSAT, specifically engaging with Resource Owners to provide transparency of the issues and timelines for meeting compliance deadlines and OEM model improvements, and to consider the impacts of the 10% vendor models not submitted/or responsive. | IBRWG |  | 11/02/2023 |
| TAC Assignment: Review impacts of existing and proposed EPA regulations on the ERCOT market and the reliability of the ERCOT grid and the future Resource mix  Previously was CSAPR NOx Season Allowance Issues | ROS/WMS | Update: Revise as amended by TAC at the 10/24/23 TAC meeting. This item may need to be left open for some time to allow for more clarity on what final EPA emission regulation rules look like. Coordinate with WMS leadership | 11/02/2023  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 | Update: ERCOT and stakeholders are evaluating load shed obligation calculation methodologies via NOGRR26 at the LFLTF. ROS will keep this action item tabled for further review following resolution of the load obligation policy discussions occurring via NOGRR256. | 11/02/2023  01/05/2023 |
| TAC Assignment: September 6, 2023 EEA2 Event – review what occurred, improvements that can be made including: EEA threshold/trigger, PRC calculations, relaxation of constraints during EEA, CMPs before EEAs, management of HDL overrides | ROS |  | 09/26/2023 |

**PARKING LOT ITEMS:**

**(for awareness)**

| Parking Lot Items | Responsible | Notes | Assigned |
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| 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 |