**AGENDA**

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

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

Thursday, August 3, 2023 / 9:30 a.m.

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2555 135 8618

Password: #MvFA#35

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | 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) | Chase Smith |  |
|  | * June 8, 2023 |  |  |
| 3.5 | Technical Advisory Committee (TAC) Update | Chase Smith | 9:35 a.m. |
| 4. | ERCOT Reports |  | 9:40 a.m. |
|  | * Operations Report | Alex Lee |  |
|  | * System Planning Report | Ping Yan |  |
|  | * Generic Transmission Constraint (GTC) Update | Yunzhi Cheng |  |
|  | * EMS Upgrade Project Update | Troy Anderson |  |
| 5. | **ROS Revision Requests (Vote)** | Chase Smith | 10:00 a.m. |
|  | ***Impact Analysis*** |  |  |
|  | * **NOGRR215, Limit Use of Remedial Action Schemes** |  |  |
|  | * **NOGRR249, Communication of System Operating Limit Exceedances** |  |  |
|  | * **NOGRR250, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding** |  |  |
|  | * **RRGRR035, Related to NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding** |  |  |
|  | * **RRGRR033, Related to NPRR1164, Black Start and Isochronous Control Capable Identification** |  |  |
|  | * **PGRR105, Deliverability Criteria for DC Tie Imports** |  |  |
|  | ***Language Review*** |  |  |
|  | * **PGRR109, Dynamic Model Review Process Improvement for Inverter-Based Resource (IBR) Modification** |  |  |
|  | * **PGRR110, Revision to Accommodate Steady-State Node-Breaker Modeling** |  |  |
|  | * **NOGRR255, High Resolution Data Requirements** |  |  |
| 6. | Operations Working Group (OWG) | Theresa Noyes | 10:50 a.m. |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote) |  |  |
|  | * NOGRR245, Inverter-Based Resource (IBR) Ride-Through Requirements (OWG, DWG, IBRTF) (Possible Vote) |  |  |
| 7. | System Protection Working Group (SPWG) | Andrew Mattei | 11:05 a.m. |
|  | * **SPWG Leadership (Vote)** |  |  |
|  | * **SPWG Chair: Andrew Mattei, Brazos Electric Cooperative** |  |  |
|  | * **SPWG Vice Chair: Mark McChesny, Oncor Electric Delivery** |  |  |
| 8. | Revision Requests Tabled at ROS (Possible Vote) | Chase Smith | 11:15 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | Break |  | 11:15 a.m. |
| 9. | Inverter Based Resources Task Force (IBRTF) | Mohammad Albaijat | 11:15 a.m. |
| 10. | Planning Working Group (PLWG) | Dylan Preas | 11:30 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) |  |  |
| 11. | Steady State Working Group (SSWG) | Josh Wichers | 11:40 a.m. |
|  | * PGRR106, Clarify Projects Included in Transmission Project Information and Tracking (TPIT) Report (SSWG) (Possible Vote) |  |  |
| 12. | **Combo ballot (Vote)** | Chase Smith | 11:50 a.m. |
| 13. | Other Business | Chase Smith | 11:55 a.m. |
|  | * 2024 Meeting Schedule |  |  |
|  | * Review Open Action Items List |  |  |
|  | * No Report |  |  |
|  | * Black Start Working Group (BSWG) |  |  |
|  | * Dynamics Working Group (DWG) |  |  |
|  | * Network Data Support Working Group (NDSWG) |  |  |
|  | * Operations Training Working Group (OTWG) |  |  |
|  | * Performance Disturbance Compliance Working Group (PDCWG) |  |  |
|  | * Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | Chase Smith | 12:00 p.m. |
|  | Future ROS Meetings |  |  |
|  | * September 7, 2023 |  |  |
|  | * October 5, 2023 |  |  |

|  |  |  |
| --- | --- | --- |
| 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 |
| 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: 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 |