**AGENDA**

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

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

Thursday, April 6, 2023 / 9:30 a.m.

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2558 357 8340

Password: 26#UeX5a

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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) | Chase Smith |  |
|  | * March 2, 2023 |  |  |
| 4. | Technical Advisory Committee (TAC) Update | Chase Smith | 9:35 a.m. |
| 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)** | Chase Smith | 9:50 a.m. |
|  | * **NPRR1164, Black Start and Isochronous Control Capable Identification** |  |  |
| 7. | **ROS Revision Requests (Vote)** | Chase Smith | 10:05 a.m. |
|  | ***Impact Analysis*** |  |  |
|  | * **NOGRR215, Limit Use of Remedial Action Schemes** |  |  |
|  | * **NOGRR246, Related to NPRR1161, Clarify AVR Notification Requirements for IRRs** |  |  |
|  | ***Language Review*** |  |  |
|  | * **RRGRR033, Related to NPRR1164, Black Start and Isochronous Control Capable Identification** |  |  |
|  | * **NOGRR249, Communication of System Operating Limit Exceedances** |  |  |
| 8. | Revision Requests Tabled at ROS (Possible Vote) | Chase Smith | 10:30 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * NOGRR230, WAN Participant Security |  |  |
|  | * NPRR1150, Related to NOGRR230, WAN Participant Security |  |  |
| 9. | Planning Working Group (PLWG) | Alexandra Miller | 10:30 a.m. |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote) |  |  |
|  | * PGRR103, Establish Time Limit for Generator Commissioning Following Approval to Synchronize (OWG/PLWG) (Possible Vote) |  |  |
| 10. | Operations Working Group (OWG) | Rickey Floyd | 10:50 a.m. |
|  | * NOGRR245, Inverter-Based Resource (IBR) Ride-Through Requirements (OWG, DWG, IBRTF) (Possible Vote) |  |  |
|  | * NOGRR247, Change UFLS Stages and Load Relief Amounts (OWG, DWG, PDCWG, SPWG) (Possible Vote) |  |  |
|  | Break |  | 11:05 a.m. |
| 11. | Inverter Based Resources Task Force (IBRTF) | Mohammad Albaijat | 11:15 a.m. |
| 12. | Dynamics Working Group (DWG) | Javier Martinez | 11:25 a.m. |
|  | * DWG Vice Chair (Possible Vote) |  |  |
| 13. | Performance Disturbance Compliance Working Group (PDCWG) | Jimmy Jackson | 11:30 a.m. |
| 14. | System Protection Working Group (SPWG) | Jon Snellgrove | 11:40 a.m. |
| 15. | **Combo ballot (Vote)** | Chase Smith | 11:50 a.m. |
| 16. | Black Start Working Group (BSWG) | Michael Dieringer | 11:55 p.m. |
| 17. | Operations Training Working Group (OTWG) | Dave Blackshear | 12:05 p.m. |
| 18. | Other Business | Chase Smith | 12:10 p.m. |
|  | * April 6, 2023 RRS-PFR Limits Study Workshop | Nitika Mago |  |
|  | * Review Open Action Items List |  |  |
|  | * No Report |  |  |
|  | * Network Data Support Working Group (NDSWG) |  |  |
|  | * Steady State Working Group (SSWG) |  |  |
|  | * Voltage Profile Working Group (VPWG) |  |  |
|  | Adjourn | Chase Smith | 12:20 p.m. |
|  | Future ROS Meetings |  |  |
|  | * May 4, 2023 |  |  |
|  | * June 8, 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 |
| 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: 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 |