**AGENDA**

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

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

Thursday, April 7, 2022 / 9:30 a.m.

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2558 415 0922

Password: xV882#

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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 (Vote)** | Chase Smith |  |
|  | * **February 7, 2022** * **March 3, 2022** | Chase Smith |  |
| 4. | Technical Advisory Committee (TAC) Update | Chase Smith |  |
| 5. | ERCOT Reports |  | 9:40 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | Ping Yan |  |
|  | * Generic Transmission Constraint (GTC) Update | Yunzhi Cheng |  |
|  | * TSAT Model Update | Mehdi Daryabak |  |
| 6. | **ROS Revision Requests (Vote)** | Chase Smith | 10:00 a.m. |
|  | ***Impact Analysis Review*** |  |  |
|  | * **NOGRR239, WAN Data Protection Responsibilities** |  |  |
|  | ***Language Review*** |  |  |
|  | * **NOGRR241, Related to NPRR1127, Clarification of ERCOT Hotline Uses** |  |  |
| 7. | Revision Requests Tabled at ROS (Possible Vote) | Chase Smith | 10:05 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * NOGRR230, WAN Participant Security |  |  |
|  | * PGRR100, Steady-State Case Building Timeline Update |  |  |
|  | Break |  | 10:20 a.m. |
| 8. | Planning Working Group (PLWG) | Charles DeWitt | 10:30 a.m. |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote) |  |  |
|  | * NOGRR240, Direct Current Tie (DC Tie) Ride-Through Requirements (PLWG, DWG, OWG) (Possible Vote) |  |  |
| 9. | Dynamics Working Group (DWG) | Zhenhua Wang | 10:40 a.m. |
| 10. | Steady State Working Group (SSWG) | Ross Cloninger | 10:50 a.m. |
| 11. | Planning Geomagnetic Disturbance Task Force (PGDTF) | Jorge Canamar | 11:00 a.m. |
| 12. | Operations Working Group (OWG) | Rickey Floyd | 11:10 a.m. |
|  | * NPRR1084, Improvements to Reporting of Resource Outages and Derates (Possible Vote) |  |  |
|  | * NPRR1085, Ensuring Continuous Validity of Physical Responsive Capability (PRC) and Dispatch through Timely Changes to Resource Telemetry and Current Operating Plans (COPs) (OWG, PDCWG) (Possible Vote) |  |  |
|  | * NPRR1100, Emergency Switching Solutions for Energy Storage Resources (Possible Vote) |  |  |
|  | * NPRR1118, Clarifications to the OSA Process (Possible Vote) |  |  |
|  | * NOGRR215, Limit Use of Remedial Action Schemes (Possible Vote) |  |  |
|  | * NOGRR226, Revision to 5% Transmission Operator (TO) Load Shedding Relay Point (DWG, OWG, PDCWG) (Possible Vote) * Major Transmission Elements (MTE) list (Possible Vote) |  |  |
| 13. | Performance Disturbance Compliance Working Group (PDCWG) | Jimmy Jackson | 11:35 a.m. |
| 14. | Black Start Working Group (BSWG) | Rutul Patel | 11:45 a.m. |
|  | * NPRR1110, Black Start Requirements Update (Possible Vote) |  |  |
| 15. | **Combo Ballot (Vote)** | Chase Smith | 11:55 a.m. |
| 16. | Inverter Based Resources Task Force (IBRTF) | Mohammad Albaijat | 12:00 p.m. |
| 17. | Network Data Support Working Group (NDSWG) | Kenesha King | 12:10 p.m. |
| 18. | System Protection Working Group (SPWG) | Bret Burford | 12:20 p.m. |
| 19. | Voltage Profile Working Group (VPWG) | Maribel Khayat | 12:45 p.m. |
| 20. | Other Business | Chase Smith | 12:55 p.m. |
|  | * NERC/FERC winter storm Uri | Mark Henry |  |
|  | * Review Open Action Items List |  |  |
|  | * No Report |  |  |
|  | * Operations Training Working Group (OTWG) |  |  |
|  | Adjourn | Chase Smith | 1:20 p.m. |
|  | Future ROS Meetings |  |  |
|  | * May 5, 2022 |  |  |
|  | * June 2, 2022 |  |  |

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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 |
| PGDTF transition the modeling, maintenance of data, and studies of Geomagnetic Disturbance (GMD) events to PLWG and SSWG, specifically assist in developing updated scope to include Geomagnetic Disturbance Vulnerability Assessment (GMDVA) planning, study processes and future study results to PLWG and SSWG, and modeling responsibilities to ERCOT and PLWG. | PGDTF/SSWG/PLWG | 02/07/2022 |
| 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: Following the 12/16/21 PUCT approval of NPRR1105, Option to Deploy Distribution Voltage Reduction Measures Prior to Energy Emergency Alert (EEA), review and evaluate the effectiveness and criteria to use when deploying voltage reduction before EEA | OWG | 12/02/2021 |
| ~~TAC Assignment: Review the issues raised along with the impacts of OBDRR031 and return to the October 27, 2021 TAC meeting with recommendations:~~   * ~~Review RRS increase to 2800MW~~ * ~~Assess Impact of Ancillary Service changes over summer/report to TAC~~ * ~~Analyze methodology for determining Non-Spinning Reserve (Non-Spin) requirements and value provided in non-peak times~~ * ~~Account for Responsive Reserve Service (RRS) High Ancillary Service Limit (HASL) release in non-spin deployment~~ * ~~How to define high/med/low variability?~~ * ~~Should Non-Controllable Load Resource (NCLR) be allowed to provide Non-Spin?~~ * ~~Should higher RRS or ERCOT Contingency Reserve Service (ECRS) be procured?~~ * ~~Review the impact to cycling resource before it is really needed in peak summer~~ | ~~PDCWG~~ | 03/03/2022  ~~07/08/2021~~ |
| 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 |