**AGENDA**

**ERCOT Reliability Operations Subcommittee (ROS) Meeting by Webex Only**

**Thursday, December 2, 2021 / 9:30 a.m.**

<https://ercot.webex.com>

Teleconference: 877-668-4493

Meeting number: 2558 829 2634

Password: Md275#

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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 |  9:35 a.m.  |
|  | * **November 4, 2021**
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|  4.  | Technical Advisory Committee (TAC) Update | Chase Smith  |  9:40 a.m.  |
|  | * Emergency Conditions List Review/Update
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|  5. | ERCOT Reports |  |  9:50 a.m.  |
|  | * Operations Report
 | ERCOT Staff |  |
|  | * System Planning Report
 | Ping Yan |   |
|  | * Generic Transmission Constraint (GTC) Update
 | Yunzhi Cheng  |  |
|  | * TSAT Model Update
 | Mehdi Daryabak |  |
|  | * Inverter Based Resources Task Force (IBRTF) (Possible Vote)
 | ERCOT Staff  |  |
|  | * IBRTF Scope (Possible Vote)
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|  6. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | Chase Smith |  10:45 a.m.  |
|  | * **NPRR1100, Emergency Switching Solutions for Energy Storage Resources**
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|  7. | **ROS Revision Requests (Vote)**  | Chase Smith |  11:00 a.m.  |
|  | ***Impact Analysis Review*** |  |  |
|  | * **NOGRR235, Combining Greyboxes and Other Corrections**
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|  | ***Language Review*** |  |  |
|  | * **PGRR098 Consideration of Load Shed in Transmission Planning Criteria**
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|  | * **PGRR099, Revise GIM Process to Ensure Compliance with the Lone Star Infrastructure Protection Act**
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|  8. | Revision Requests Tabled at ROS (Possible Vote) | Chase Smith |  11:30 a.m.  |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions
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|  | * NOGRR230, WAN Participant Security
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|  | Break |  |  11:30 a.m.  |
|  9. | Planning Working Group (PLWG) | Charles DeWitt  |  11:40 a.m.  |
|  | * NPRR1070, Planning Criteria for GTC Exit Solutions (OWG/PLWG) (Possible Vote)
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|  | * PGRR095, Establish Minimum Deliverability Criteria (Possible Vote)
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|  | * PGRR096, Achieve Consistent Representation of Distributed Generation in Steady-State Models (PLWG) (SSWG) (Possible Vote)
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|  | * PGRR097, Related to NPRR1098, Direct Current Tie (DC Tie) Reactive Power Capability Requirements (Possible Vote)
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|  10. | Steady State Working Group (SSWG) | Chenyan Guo |  12:00 p.m. |
|  11. | Operations Working Group (OWG)  | Rickey Floyd |  12:10 p.m.  |
|  | * NOGRR215, Limit Use of Remedial Action Schemes (Possible Vote)
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|  | * NOGRR226, Revision to 5% Transmission Operator (TO) Load Shedding Relay Point (DWG, OWG, PDCWG) (Possible Vote)
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|  | * NPRR1084, Improvements to Reporting of Resource Outages and Derates (Possible Vote)
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|  | * 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)
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|  | * NOGRR234, Related to NPRR1098, Direct Current Tie (DC Tie) Reactive Power Capability Requirements (Possible Vote)
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|  12.  | Performance Disturbance Compliance Working Group (PDCWG) | Chad Mulholland |  12:35 p.m.  |
|  | * NPRR1096, Require Sustained Six Hour Capability for ECRS and Non-Spin (Possible Vote)
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|  13.  | Network Data Support Working Group (NDSWG) | J-M Yatar |  12:50 p.m.  |
|  | * NPRR1099, Managing Network Operations Model Resource Nodes (Possible Vote)
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|  14.  | Dynamics Working Group (DWG) | Sam Jung |  1:05 p.m.  |
|  15. | **Combo Ballot (Vote)** | Chase Smith |  1:15 p.m.  |
|  16. | Planning Geomagnetic Disturbance Task Force (PGDTF) | Chu Liang |  1:20 p.m.  |
|  17. | System Protection Working Group (SPWG) | Vincent Roberts |  1:30 p.m. |
|  18.  | Voltage Profile Working Group (VPWG) | Scot Williams  |  1:40 p.m.  |
|  19. | Other Business | Chase Smith |  1:50 p.m.  |
|  | * Review Open Action Items List
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|  | * No Report:
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|  | * + Black Start Working Group (BSWG)
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|  | * + Operations Training Working Group (OTWG)
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|  | Adjourn | Chase Smith |  2:00 p.m.  |
|  | Future ROS Meetings |  |  |
|  | * January 6, 2021
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|  | * February 3, 2021
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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 repositoryUpdate: effort restarted and being reviewed next few meetings  | NDSWG | 04/01/2021 Update05/02/201904/04/2019 |
| 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 |
| 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 |
| Emergency Conditions List Item #42 Update – OWG review and provide recommendations at the 12/2/21 ROS meeting | OWG | 11/07/2021 |
| TAC Assignment: [Emergency Conditions List Review](http://www.ercot.com/committee/tac) | ROS | 03/24/2021 |
| 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 | 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
 | ROSBSWGPLWGPDCWG/DWG | 04/29/2021 |