**AGENDA**

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

ERCOT Austin / 7620 Metro Center Drive / Austin, Texas 78744

**Thursday, February 6, 2019 / 9:30 a.m.**

[**http://ercot.webex.com**](http://ercot.webex.com)

Meeting Number: 623 475 799

Meeting Password: ROS

Teleconference: 1.877.668.4493

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|  1. | Antitrust Admonition | K. Bunch |  9:30 a.m. |
|  2. | Agenda Review | K. Bunch |  |
|  3.  | **Approval of ROS Meeting Minutes (Vote)** | K. Bunch | 9:35a.m.  |
|  | * **January 9, 2019**
 |  |  |
|  4. | Technical Advisory Committee (TAC) Update | K. Bunch |  9:40 a.m.  |
|  5. | **2020 ROS Working Group/Task Force Leadership (Vote)** | K. Bunch | 9:45 a.m.  |
|  6.  | 2020 ROS Goals (Possible Vote)  | K. Bunch | 9:50 a.m.  |
|  7. | ERCOT Reports |  | 9:55 a.m.  |
|  | * Operations Report
 | ERCOT Staff |  |
|  | * System Planning Report
 | J. Billo |  |
|  | * Inverter-Based Resources Update
 | J. Billo |  |
|  | * ERCOT Interconnection Inertia Analysis
 | J. Matevosjana |  |
|  | * MIS/ERCOT.com Enhancements
 | A. Lofton |  |
|  8. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | K. Bunch | 10:35 a.m.  |
|  | * **NPRR987, BESTF-3 Energy Storage Resource Contribution to Physical Responsive Capability and Real-Time On-Line Reserve Capacity Calculations**
 |  |  |
|  | * **NPRR989, BESTF-1 Energy Storage Resource Technical Requirements**
 |  |  |
|  9. | Revision Requests Tabled at PRS, Referred to ROS (Possible Vote) | K. Bunch | 10:50 a.m.  |
|  | * NPRR953, Addition of Relay Loadability Rating Definition
 |  |  |
|  10. | **ROS Revision Requests (Vote)**  | K. Bunch  |  10:55 a.m.  |
|  | ***Impact Analysis Review***  |  |  |
|  | * **NOGRR202, Align Nodal Operating Guide with the Posting Timeline in Procedure for Calculating Responsive Reserve (RRS) Limits for Individual Resources**
 |  |  |
|  | * **PGRR075, Dynamic Model Quality Requirement**
 |  |  |
|  | * **NOGRR196, Related to NPRR973, Add Definitions Generator Step-Up and Main Power Transformer**
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|  | * **PGRR074, Related to NPRR973, Add Definitions Generator Step-Up and Main Power Transformer**
 |  |  |
|  | * **RRGRR022, Related to NPRR973, Add Definitions Generator Step-Up and Main Power Transformer**
 |  |  |
|  | ***Language Review***  |  |  |
|  | * **NOGRR205, Clarification to Grey-boxed Language in Section 4.8.1**
 |  |  |
|  | * **PGRR077, DC Tie Planning Assumptions**
 |  |  |
|  11. | Revision Requests Tabled at ROS (Possible Vote) | K. Bunch |  11:20 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions
 |  |  |
|  | * PGRR076, Improvements to Generation Resource Interconnection or Change Request (GINR) Process (PLWG)
 |  |  |
|  | * RRGRR021, Dynamic Model Requirement for TSAT
 |  |  |
|  | * NOGRR200, Delete Remaining Grey-Boxed Language Associated with NOGRR025, Monitoring Programs for QSEs, TSPs, and ERCOT
 |  |  |
|  12. | Network Data Support Working Group (NDSWG) | B. Ravulapati | 11:50 a.m.  |
|  | * NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols (NDSWG) (Possible Vote)
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|  | * NOGRR199, Related to NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols (NDSWG) (Possible Vote)
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|  13. | Operations Working Group (OWG) | OWG Leadership  | 12:00 p.m.  |
|  | * NOGRR195, Generator Voltage Control Tolerance Band (OWG) (VPWG) (Possible Vote)
 |  |  |
|  | * NOGRR204, Related to NPRR989, BESTF-1 Energy Storage Resource Technical Requirements (OWG) (PDCWG) (Possible Vote)
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|  14.  | Dynamic Working Group (DWG) | DWG Leadership | 12:10 p.m. |
|  | * **DWG Procedure Manual Updates (Vote)**
 |  |  |
|  15. | Steady State Working Group (SSWG) | SSWG Leadership | 12:25 p.m.  |
|  16. | Performance Disturbance Compliance Working Group (PDCWG) | PDCWG Leadership |  12:35 p.m. |
|  17. | Operations Training Group (OTWG) | OTWG Leadership  | 12:45 p.m. |
|  18. | Planning Geomagnetic Disturbance Task Force (PGDTF)  | PGDTF Leadership |  12:50 p.m.  |
|  19. | Voltage Profile Working Group (VPWG) | VPWG Leadership |  1:00 p.m. |
|  20. | Other Business | K. Bunch  |  1:10 p.m.  |
|  | * DGR Workshop III and IV
 | Blevins/Stice |  |
|  | * Reactive Power Coordination (RPC) Workshop
 | S. Solis |  |
|  | * Review Open Action Items
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|  | * No Report:
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|  | * + Black Start Working Group (BSWG)
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|  | * + Planning Working Group (PLWG)
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|  | * + System Protection Working Group (SPWG)
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|  | Adjourn | K. Bunch  |  1:30 p.m.  |
|  | Future ROS Meetings |  |  |
|  | * March 5, 2020
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|  | * April 2, 2020
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| Open Action Items | Responsible  | Assigned  |
| --- | --- | --- |
| Inverter-Based Resource Issue 3, Voltage Ride through  | DWG | 07/11/2019 |
| Inverter-Based Resource Issue 4, Dynamic Models | 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 | NDSWG | 05/02/201904/04/2019 |
| TAC Assignment: Reliability considerations regarding Outage Activity Related to Operating Condition Notice (OCN) | OWG to look at Operating Guides to confirm consistent after WMS/WMWG review the issues | 07/11/2019 |
| Evaluating and improving ERCOT’s Dynamic Frequency Response Model  | PDCWG | 07/11/2019 |
| *Southern Cross Directives* SCT Directive 3: Determination of Ramp Rate RestrictionsDirective 9, Ancillary Services* Issues related to study of frequency overshoot and LRs UFR setting
* Margin between min RRS Procurement & Contingency Reserve Requirements

Address issues related to NSRS and Regulation Service | ROS PDCWGDWGOWG/PDCWGPDCWG | 03/07/2019 |
| TAC Assignment: Summer Assessment Items* Switchable Generation Resources (SWGRs) with Exelon items
* Emergency Response Service (ERS)
* Process for Summer demand response study (RMS,WMS then ROS)
* Non-Frequency Responsive Capacity (NFRC) versus Physical Responsive Capability (PRC) reserves when Gen RRS is released
 | OWGOWGROS PDCWG | 12/05/2019 |