**AGENDA**

**ERCOT Reliability Operations Subcommittee (ROS) Meeting – by WebEx Only**

**Thursday, July 9, 2020 / 9:30 a.m.**

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

Meeting Number: 126 460 5321

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 | 9:35 a.m. |
|  | * **June 4, 2020** |  |  |
| 4. | Technical Advisory Committee (TAC) Update | K. Bunch | 9:40 a.m. |
| 5. | **2020 ROS Goals (Vote)** | K. Bunch |  |
| 6. | ERCOT Reports |  | 9:45 a.m. |
|  | * Operations Report | ERCOT Staff |  |
|  | * System Planning Report | P. Yan |  |
|  | * West to Central Texas Generic Transmission Constraint (GTC) Update | P. Gnanam |  |
|  | * West Texas Export Stability Assessment Report | J. Schmall |  |
|  | * Inverter-Based Resources Follow Up Update | F. Huang |  |
| 7. | **New Protocol Revision Subcommittee (PRS) Referrals (Vote)** | K. Bunch | 10:25 a.m. |
|  | * **NPRR1001, Clarification of Definitions of Operating Condition Notice, Advisory, Watch, Emergency Notice, and Related Clarifications** |  |  |
| 8. | Revision Requests Tabled at PRS, Referred to ROS (Possible Vote) | K. Bunch | 10:40 a.m. |
|  | * NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols |  |  |
| 9. | **ROS Revision Requests (Vote)** | K. Bunch | 10:50 a.m. |
|  | ***Impact Analysis Review*** |  |  |
|  | * **PGRR076, Improvements to Generation Resource Interconnection or Change Request (GINR) Process** |  |  |
|  | * **NOGRR195, Generator Voltage Control Tolerance Band** |  |  |
|  | * **NOGRR208, Related to NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions** |  |  |
|  | * **RRGRR023, Related to NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions** |  |  |
|  | * **NOGRR209, Related to NPRR1003, Elimination of References to Resource Asset Registration Form** |  |  |
|  | * **RRGRR024, Related to NPRR1003, Elimination of References to Resource Asset Registration Form** |  |  |
|  | * **PGRR079, Related to NPRR1003, Elimination of References to Resource Asset Registration Form** |  |  |
|  | * **NOGRR212, Related to NPRR1016, Clarify Requirements for Distribution Generation Resources (DGRs) and Distribution Energy Storage Resources (DESRs)** |  |  |
|  | * **RRGRR026, Related to NPRR1016, Clarify Requirements for Distribution Generation Resources (DGRs) and Distribution Energy Storage Resources (DESRs)** |  |  |
|  | ***Language Review*** |  |  |
|  | * **NOGRR215, Limit Use of Remedial Action Schemes** |  |  |
|  | * **PGRR081, Related to NPRR1026, BESTF-7 Self-Limiting Facilities and Self-Limiting Resources** |  |  |
| 10. | Revision Requests Tabled at ROS (Possible Vote) | K. Bunch | 11:10 a.m. |
|  | * PGRR073, Related to NPRR956, Designation of Providers of Transmission Additions |  |  |
|  | * PGRR077, DC Tie Planning Assumptions |  |  |
|  | * NOGRR199, Related to NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols |  |  |
|  | * NOGRR207, Related to NPRR1001, Clarification of Definitions of Operating Condition Notice, Advisory, Watch, Emergency Notice, and Related Clarifications |  |  |
|  | * NOGRR210, Related to NPRR1005, Clarify Definition of Point of Interconnection (POI) and Add Definition Point of Interconnection Bus (POIB) |  |  |
|  | * RRGRR025, Related to NPRR1005, Clarify Definition of Point of Interconnection (POI) and Add Definition Point of Interconnection Bus (POIB) |  |  |
|  | * NOGRR211, RTC – NOG 2 and 9: System Operations and Control Requirements and Monitoring Programs |  |  |
| 11. | Planning Geomagnetic Disturbance Task Force (PGDTF) | A. Kandah | 11:30 a.m. |
|  | * NOGRR214, Geomagnetic Disturbance (GMD) Measurement Data Reporting (Possible Vote) |  |  |
| 12. | Steady State Working Group (SSWG) | N. Khan | 11:45 a.m. |
|  | * **SSWG Procedure Manual (Vote)** |  |  |
| 13. | Dynamic Working Group (DWG) | R. Egunjobi | 11:55 a.m. |
| 14. | Operations Working Group (OWG) | R. Floyd | 12:05 p.m. |
| 15. | Network Data Support Working Group (NDSWG ) | J. Yatar | 12:15 p.m. |
| 16. | Performance Disturbance Compliance Working Group (PDCWG) | C. Mulholland | 12:25 p.m. |
| 17. | Planning Working Group (PLWG) | T. Cook | 12:35 p.m. |
| 18. | Other Business | K. Bunch | 12:45 p.m. |
|  | * Review Open Action Items |  |  |
|  | * No Report: |  |  |
|  | * + Black Start Working Group (BSWG) |  |  |
|  | * + Operations Training Group (OTWG) |  |  |
|  | * + System Protection Working Group (SPWG) |  |  |
|  | * + Voltage Profile Working Group (VPWG) |  |  |
|  |  |  |  |
|  | Adjourn | K. Bunch | 1:00 p.m. |
|  | Future ROS Meetings |  |  |
|  | * August 6, 2020 |  |  |
|  | * September 3, 2020 |  |  |

| Open Action Items | Responsible | Assigned |
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| 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 | 05/02/2019  04/04/2019 |
| TAC Assignment: Reliability considerations regarding Outage Activity Related to Operating Condition Notice (OCN) | OWG review 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 Restrictions  Directive 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  PDCWG  DWG  OWG/PDCWG  PDCWG | 03/07/2019 |
| TAC Assignment: Summer Assessment Items   * Switchable Generation Resources (SWGRs) with Exelon items 3/5/2020 ROS Information Session OWG reported TAC/ROS/OWG assignment completed – Pending is ROS Leadership need to report to TAC at next in person meeting then remove * Emergency Response Service (ERS)   3/5/2020 ROS Information Session OWG reported TAC/ROS/OWG assignment completed – Pending is ROS Leadership need to report to TAC at next in person meeting then remove   * 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 | ROS  ROS  ROS  PDCWG | 12/05/2019 |
| Develop Methodology for ESR and below studies as requested by Battery Energy Storage Task Force (BESTF)   * Outage Coordination Studies – OWG * Operational Studies – PLWG/OWG * Transmission Planning Studies – PLWG/OWG | OWG/PLWG | 03/05/2020 |