**APPROVED**

**Minutes of the Protocol Revision Subcommittee (PRS) Meeting**

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

**Thursday, January 11, 2024 – 9:30 a.m.**

Attendance

*PRS Representatives:*

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Abbott, Kristin | Austin Energy |  |
| Barnes, Bill | Reliant Energy Retail Services (Reliant) |  |
| Coleman, Diana | CPS Energy |  |
| Goff, Eric | Residential Consumer | Via Teleconference |
| Hanson, Kevin | National Grid Renewables (NGR) |  |
| Henson, Martha | Oncor Electric Delivery (Oncor) |  |
| Lee, Jim | CenterPoint Energy (CNP) | Via Teleconference |
| Mindham, David | EDP Renewables |  |
| Nguyen, Andy | Constellation Energy Generation (Constellation) |  |
| Pfefferle, Ryan | Occidental Chemical (Occidental) |  |
| Rich, Katie | Golden Spread Electric Cooperative (GSEC) |  |
| Turner, Lucas | South Texas Electric Cooperative (STEC) | Via Teleconference |
| Varnell, John | Tenaska Power Services (Tenaska) |  |
| Wall, Perrin | CenterPoint Energy (CNP) | Alt. Rep. for Jim Lee via Teleconference |
| Winn, Aaron | Chariot Energy | Via Teleconference |
|  |  |  |
| *Guests:* |  |  |
| Ainspan, Malcolm | NRG | Via Teleconference |
| Aldridge, Ryan | AB Power Advisors | Via Teleconference |
| Allen, Thresa | Avangrid Renewables | Via Teleconference |
| Altuve, Jose |  | Via Teleconference |
| Anderson, Connor | AB Power Advisors | Via Teleconference |
| Ashley, Kristy | Customized Energy Solutions | Via Teleconference |
| Barati, Camron | Potomac Economics | Via Teleconference |
| Barr, Bill | LCRA | Via Teleconference |
| Berry, DJ | LCRA | Via Teleconference |
| Bezwada, Neelima | Potomac Economics | Via Teleconference |
| Bivens, Carrie | NextEra | Via Teleconference |
| Blackburn, Don | Hunt Energy Network Power Marketing | Via Teleconference |
| Blakey, Eric | Pedernales Electric Cooperative (PEC) |  |
| Bonskowski, Ned | Luminant Corporation |  |
| Brown, Chris | PUCT | Via Teleconference |
| Burke, Tom | RWE |  |
| Callender, Hudson | CPS Energy | Via Teleconference |
| Clifford, Brigid | PG Renewables | Via Teleconference |
| Cochran, Seth | DC Energy | Via Teleconference |
| Collins, Connor | STEC | Via Teleconference |
| Cooksey, Matthew | OPUC | Via Teleconference |
| Conant, Portia | Yes Energy | Via Teleconference |
| Cortez, Sarai | Trailstone | Via Teleconference |
| Cotton, Ashley | GEUS | Via Teleconference |
| Crist, Kelly | ENGIE | Via Teleconference |
| Curtin, Jim |  | Via Teleconference |
| Dreyfus, Mark | MD Energy Consulting | Via Teleconference |
| Duensing, Allison | Sarac Energy | Via Teleconference |
| Fink, Regan | PG Renewables | Via Teleconference |
| Fleming, Jackie | Talen Energy | Via Teleconference |
| Freeland, Lauren | Hunton Andrews Kurth | Via Teleconference |
| Ghoshal, Orijit | esVolta | Via Teleconference |
| Grimsley, Shawn | ENGIE North America | Via Teleconference |
| Hall, Matthew | Invenergy | Via Teleconference |
| Harvey, Julia | Texas Electric Cooperatives | Via Teleconference |
| Headrick, Bridget | CES | Via Teleconference |
| Helton, Bob | Engie North America (ENGIE) |  |
| Hester, Doug | Talen Energy | Via Teleconference |
| Hinkson, David | CPS Energy | Via Teleconference |
| Holt, Blake | Lower Colorado River Authority (LCRA) |  |
| Hubbard, John Russ | TIEC |  |
| Huynh, Thuy | Potomac Economics | Via Teleconference |
| Johnson, Shannon | PEC | Via Teleconference |
| Jones, Liz | Oncor | Via Teleconference |
| Kee, David | CPS Energy |  |
| Keefer, Andrew | City of Denton | Via Teleconference |
| Keller, Jenna | Potomac Economics | Via Teleconference |
| Kilroy, Taylor | TPPA | Via Teleconference |
| Kimbrough, Mandy | NRG | Via Teleconference |
| King, Robert | Good Company Associates | Via Teleconference |
| Koz, Brian | Wolframium Power | Via Teleconference |
| Lauderdale, Melissa | Gexa Energy | Via Teleconference |
| Loarie, Jessica | Invenergy | Via Teleconference |
| Lotter, Eric | Grid Monitor | Via Teleconference |
| Macaraeg, Tad | Stem | Via Teleconference |
| Matt, Kevin | NRG | Via Teleconference |
| McClellan, Suzi | Good Company Associates | Via Teleconference |
| McMurray, Mark | BTU | Via Teleconference |
| Meyer, Kari | CPS Energy | Via Teleconference |
| Miller, Alexandra | EDF Renewables | Via Teleconference |
| Mrini, Imane | Austin Energy | Via Teleconference |
| Morris, Sandy | WETT | Via Teleconference |
| Musher, Danny | Key Capture Energy | Via Teleconference |
| Okenfuss, James | SENA |  |
| Oxendine, Helen | CPS Energy | Via Teleconference |
| Pietrucha, Doug | AEE | Via Teleconference |
| Pokharel, Nabaraj | Office of Public Utility Council (OPUC) | Via Teleconference |
| Pyka, Greg | Schneider Engineering | Via Teleconference |
| Reader, Raborn | CCON | Via Teleconference |
| Reedy, Steve | CIM View Consulting |  |
| Richmond, Michele | Competitive Power | Via Teleconference |
| Sams, Bryan | Calpine Corporation |  |
| Sersen, Juliana | Baker Botts | Via Teleconference |
| Siddiqi, Shams | Rainbow Energy Marketing Corporation | Via Teleconference |
| Smith, Caitlin | Jupiter Power | Via Teleconference |
| Spencer, Mark | LS Power | Via Teleconference |
| Sterling, Tiffany | Dow | Via Teleconference |
| Swigonski, Frank | Pine Gate Renewables | Via Teleconference |
| Thomas, Wayne | BTU | Via Teleconference |
| Townsend, Paul | TCPA | Via Teleconference |
| Trevino, Melissa | Occidental Chemical | Via Teleconference |
| True, Roy | ACES | Via Teleconference |
| Van Winkle, Kim | PUCT | Via Teleconference |
| Velasquez, Ivan | Oncor | Via Teleconference |
| Walters, Jodi | EDP | Via Teleconference |
| Watson, Markham |  | Via Teleconference |
| Wilson, Joe Dan | GSEC |  |
| Withrow, David | AEP | Via Teleconference |
| Wittmeyer, Bob | Longhorn Power |  |
| Wyman, Constance McDaniel | AEPSC |  |
| Xie, Fei | Austin Energy | Via Teleconference |
| Yu, Joel | Enchanted Rock | Via Teleconference |
| Zang, Hailing | TC Energy | Via Teleconference |
| Zhang, Bryan | Potomac Economics | Via Teleconference |
| Zito, David | Gabel Associates | Via Teleconference |
| *ERCOT Staff* |  |  |
| Albracht, Brittney |  |  |
| Anderson, Troy |  |  |
| Azeredo, Chris |  | Via Teleconference |
| Billo, Jeff |  | Via Teleconference |
| Bigbee, Nathan |  | Via Teleconference |
| Boren, Ann |  |  |
| Carswell, Cory |  | Via Teleconference |
| Chen, Jian |  | Via Teleconference |
| Christy, Steve |  | Via Teleconference |
| Clifton, Suzy |  |  |
| Day, Betty |  | Via Teleconference |
| Dwyer, Davida |  | Via Teleconference |
| El-Madhoun, Mohamed |  | Via Teleconference |
| Fohn, Doug |  |  |
| Garcia, Freddy |  |  |
| Gross, Katherine |  | Via Teleconference |
| Hanson, Pamela |  |  |
| Hobbs, Kristi |  | Via Teleconference |
| Lee, Alex |  | Via Teleconference |
| Lightener, Debbie |  | Via Teleconference |
| Maul, Donald |  | Via Teleconference |
| Mereness, Matt |  |  |
| Mago, Nitika |  | Via Teleconference |
| Maggio, Dave |  | Via Teleconference |
| Matlock, Robert |  | Via Teleconference |
| Opheim, Calvin |  | Via Teleconference |
| Phillips, Cory |  |  |
| Ravulapalli, Sridevi |  | Via Teleconference |
| Roberts, Randy |  | Via Teleconference |
| Rosel, Austin |  | Via Teleconference |
| Shanks, Maggie |  | Via Teleconference |
| Shaw, Pamela |  | Via Teleconference |
| Skiles, Matt |  | Via Teleconference |
| Stevens, Jim |  |  |
| Stice, Clayton |  | Via Teleconference |
| Teixeira, Jay |  | Via Teleconference |
| Thomas, Shane |  | Via Teleconference |
| Tirupati, Venkat |  | Via Teleconference |
| Troublefield, Jordan |  | Via Teleconference |
| Yan, Ping |  | Via Teleconference |
| You, Haibo |  | Via Teleconference |

*Unless otherwise indicated, all Market Segments participated in the votes.*

Suzy Clifton called the January 29, 2024 PRS meeting to order at 9:30 p.m.

Antitrust Admonition

Ms. Clifton directed attention to the Antitrust Admonition, which was displayed.

Election of 2024 PRS Chair and Vice Chair (see Key Documents)[[1]](#footnote-2)

Ms. Clifton reviewed the leadership election process codified in the Technical Advisory Committee

Procedures and opened the floor for nominations.

**Kristin Abbott nominated Diana Coleman for 2024 PRS Chair.** Ms. Coleman accepted the nomination. **Ms. Coleman was named 2024 PRS Chair by acclamation.**

**Martha Henson nominated Andy Nguyen for 2024 PRS Vice Chair.** Mr. Nguyen accepted the nomination. **Mr. Nguyen was named 2024 PRS Vice Chair by acclamation.**

Approval of Minutes (see Key Documents)

*November 9, 2023*

*November 30, 2023*

*December 15, 2023*

Ms. Coleman noted these items could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Technical Advisory Committee (TAC) Update

Ms. Coleman noted that TAC had not met since the December 15, 2023 PRS meeting.

Project Update (see Key Documents)

Troy Anderson provided project highlights, noted major projects, summarized 2023 releases and 2024 release targets, reviewed additional project status information, and respondedto Market Participant questions and concerns. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects. Mr. Anderson summarized the items discussed at the December 14, 2023 Technology Working Group (TWG) meeting.

Review PRS Reports, Impact Analyses, and Prioritization (see Key Documents)

*Nodal Protocol Revision Request (NPRR) 1170, Capturing Natural Gas Delivery Information for Natural Gas Generation Resources*

Market Participants reviewed the 1/9/24 Revised Impact Analysis for NPRR1170. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*NPRR1195, Resource Entity Metering Facilities Maintenance*

Market Participants reviewed the 1/4/24 Impact Analysis for NPRR1195. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*NPRR1206, Revisions to QSE Operations and Termination Requirements, and Elimination of Providing Certain Market Participant Principal Information*

Market Participants reviewed the 10/25/23 Impact Analysis for NPRR1206. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*NPRR1207, Incidental Disclosure of Protected Information and ECEII During ERCOT Control Room Tours*

Market Participants reviewed the 11/1/23 Impact Analysis for NPRR1207. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*NPRR1208, Creation of Invoice Report*

Market Participants reviewed the 1/9/24 Revised Impact Analysis and discussed the appropriate priority and rank for NPRR1208. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*NPRR1211, Move OBD to Section 22 – Methodology for Setting Maximum Shadow Prices for Network and Power Balance Constraints*

Market Participants reviewed the 11/20/23 Impact Analysis for NPRR1211. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*NPRR1213, Allow DGRs and DESRs on Circuits Subject to Load Shed to Provide ECRS*

Market Participants reviewed the 1/4/24 ERCOT comments to NPRR1213 and expressed support for the ERCOT request for additional time to prepare the Impact Analysis. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*System Change Request (SCR) 825, ERCOT Voice Communications Aggregation*

Market Participants reviewed the 1/9/24 Impact Analysis, and discussed the Justification of Reason for Revision and Market Impacts, and the appropriate priority and rank for SCR825; noting that SCR825 would not have to be implemented until a participant requires this change. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Revision Requests Tabled at PRS (see Key Documents)

*NPRR956, Designation of Providers of Transmission Additions*

*NPRR1070, Planning Criteria for GTC Exit Solutions*

*NPRR1188, Implement Nodal Dispatch and Energy Settlement for Controllable Load Resources*

*NPRR1190, High Dispatch Limit Override Provision for Increased NOIE Load Costs*

*NPRR1191, Registration, Interconnection, and Operation of Customers with Large Loads; Information Required of Customers with Loads 25 MW or Greater*

*NPRR1198, Congestion Mitigation Using Topology Reconfigurations*

*NPRR1200, Utilization of Calculated Values for Non-WSL for ESRs*

*NPRR1202, Refundable Deposits for Large Load Interconnection Studies*

*NPRR1205, Revisions to Credit Qualification Requirements of Banks and Insurance Companies*

*NPRR1209, Board Priority – State Of Charge Ancillary Service Failed Quantity Allocations under NPRR1149 – URGENT*

*NPRR1212, Clarification of Distribution Service Provider’s Obligation to Provide an ESI ID*

*SCR826, ERCOT.com Enhancements*

*SCR827, Grid Conditions Graph Addition for Operating Reserve Demand Curve (ORDC) Level*

PRS took no action on these items.

*NPRR1162, Single Agent Designation for a QSE and its Sub-QSEs for Voice Communications over the ERCOT WAN*

**John Varnell moved to reject NPRR1162.** Doug Fohn noted the potential for ERCOT to withdraw NPRR1162 after SCR825 proceeds through the stakeholder process, and requested additional time to consider the issues. Mr. Varnell withdrew his motion.

*NPRR1180, Inclusion of Forecasted Load in Planning Analyses*

Market Participants reviewed the 11/3/23 ROS comments and 12/13/23 ERCOT comments to NPRR1180. Some Market Participants requested additional time to develop clarifications to NPRR1180. PRS took no action on this item.

*NPRR1197, Energy Storage Resource (ESR) Non-Charging Load(s) Optional Exclusion from EPS Netting Arrangement*

Market Participants reviewed the 1/10/24 WMS comments to NPRR1197. Some Market Participants requested additional time to develop clarifications to NPRR1197. PRS took no action on this item.

*NPRR1199, Implementation of Lone Star Infrastructure Protection Act (LSIPA) Requirements*

Mr. Fohn reviewed the 1/5/23 ERCOT comments to NPRR1199, reviewed the Revision Request timeline, responded to Market Participant questions and concerns, and requested PRS consideration of NPRR1199 with Urgent status. Some Market Participants expressed concern with the affiliate definition, complexity with upstream vendors, knowledge qualifier, unintended consequences, and the look-back period. PRS took no action on this item.

*NPRR1210, Next Start Resource Test and Load-Carrying Test Frequency*

Market Participants reviewed the 1/8/24 ROS comments to NPRR1210. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Review of Revision Request Language (see Key Documents)

*NPRR1214, Reliability Deployment Price Adder Fix to Provide Locational Price Signals, Reduce Uplift and Risk*

Shams Siddiqi provided an overview of NPRR1214. Katie Rich summarized discussion of the issues at various 2022 Congestion Management Working Group (CMWG) meetings. Dave Maggio summarized the challenges in the initial concepts that, at a high level, remain, including changes to market and settlement systems. Market Participants requested further review of the issues at the Wholesale Market Subcommittee (WMS). Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Combined Ballot

**Ms. Henson moved to approve the Combined Ballot as follows:**

* **To approve the November 9, 2023, November 30, 2023, and December 15, 2023, PRS Meeting Minutes as presented**
* **To endorse and forward to TAC the 12/15/23 PRS Report and 1/9/24 Revised Impact Analysis for NPRR1170**
* **To endorse and forward to TAC the 12/15/23 PRS Report and 1/4/24 Impact Analysis for NPRR1195**
* **To endorse and forward to TAC the 12/15/23 PRS Report and 10/25/23 Impact Analysis for NPRR1206**
* **To endorse and forward to TAC the 12/15/23 PRS Report and 11/01/23 Impact Analysis for NPRR1207**
* **To endorse and forward to TAC the 12/15/23 PRS Report and 1/9/24 Impact Analysis for NPRR1208 with a recommended priority of 2024 and rank of 4090**
* **To endorse and forward to TAC the 12/15/23 PRS Report and 11/20/23 Impact Analysis for NPRR1211**
* **To table NPRR1213**
* **To endorse and forward to TAC the 12/15/23 PRS Report and 1/9/24 Impact Analysis for SCR825 with a recommended priority of 2025 and rank of 4510**
* **To recommend approval of NPRR1210 as submitted**
* **To table NPRR1214 and refer the issue to WMS**

**Kevin Hanson seconded the motion. The motion carried unanimously.** *(Please see ballot posted with Key Documents.)*

Other Business

*2024 PRS Goals*

Ms. Coleman encouraged Market Participants to offer potential revisions to the 2023 PRS Goals to PRS leadership, and stated that 2024 PRS Goals will be considered at the February 8, 2024 PRS meeting.

*Revised Revision Request Submission Form and TAC Report Form*

Cory Phillips summarized efficiencies in the Revision Request and TAC Report Forms as requested by the ERCOT Board, presented the revised forms, stated the changes went into effect January 1, 2024, reviewed the process for implementing these changes to current Revision Requests, and responded to Market Participant questions and concerns.

Adjournment

Ms. Coleman adjourned the January 11, 2024 PRS meeting at 11:22 a.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <https://www.ercot.com/calendar/01112024-PRS-Meeting> unless otherwise noted [↑](#footnote-ref-2)