**DRAFT**

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

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

**Wednesday, March 20, 2024 – 9:30 a.m.**

Attendance

*PRS Representatives:*

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Barnes, Bill | Reliant Energy Retail Services (Reliant) |  |
| Blakey, Eric | Pedernales Electric Cooperative |  |
| Cochran, Adam | Tenaska Power Services (Tenaska) | Alt. Rep. for John Varnell via Teleconference |
| Coleman, Diana | CPS Energy |  |
| Goff, Eric | Residential Consumer |  |
| Hanson, Kevin | National Grid Renewables (NGR) |  |
| Henson, Martha | Oncor Electric Delivery (Oncor) |  |
| Lee, Jim | CenterPoint Energy (CNP) |  |
| Mindham, David | EDP Renewables | Via Teleconference |
| Nguyen, Andy | Constellation Energy Generation (Constellation) |  |
| Pfefferle, Ryan | Occidental Chemical (Occidental) |  |
| Turner, Lucas | South Texas Electric Cooperative (STEC) | Via Teleconference |
| Winn, Aaron | Chariot Energy | Via Teleconference |
| Xie, Fei | Austin Energy |  |
|  |  |  |
| *Guests:* |  |  |
| Ainspan, Malcolm | NRG | Via Teleconference |
| Aldridge, Ryan | AB Power Advisors | Via Teleconference |
| Anderson, Connor | AB Power Advisors | Via Teleconference |
| Anderson, Kevin | Customized Energy Solutions (CES) | Via Teleconference |
| Ashley, Kristy | CES | Via Teleconference |
| Barati, Camron |  | Via Teleconference |
| Bertin, Suzanne |  | Via Teleconference |
| Bezwada, Neelima | Potomac Economics | Via Teleconference |
| Bivens, Carrie | NextEra | Via Teleconference |
| Blackburn, Don | Hunt Energy Network Power Marketing | Via Teleconference |
| Breiten, David | CPS Energy |  |
| Cochran, Seth | DC Energy | Via Teleconference |
| Cook, Dave |  | Via Teleconference |
| Cotton, Ashley | GEUS | Via Teleconference |
| Cripe, Ramsey | Schneider Engineering | Via Teleconference |
| Day, Smith | PEC | Via Teleconference |
| Downey, Martin |  | Via Teleconference |
| Dreyfus, Mark | MD Energy Consulting | Via Teleconference |
| Ghoshal, Orijit | esVolta | Via Teleconference |
| Gillman, Portia | Yes Energy | Via Teleconference |
| Haley, Ian | Morgan Stanley |  |
| Hall, Matthew | Invenergy | Via Teleconference |
| Harkins, Laura | LCRA | Via Teleconference |
| Heino, Shari | Brazos Electric Cooperative (Brazos) | Via Teleconference |
| Helton, Bob | ENGIE North America | Via Teleconference |
| Hester, Doug | Talen Energy | Via Teleconference |
| Holt, Blake | Lower Colorado River Authority (LCRA) |  |
| Hubbard, John Russ | Texas Industrial Energy Consumers (TIEC) |  |
| Huynh, Thuy | Potomac Economics | Via Teleconference |
| Ingraham, Deborah | Acciona | Via Teleconference |
| Jackson, Jimmy | CPS Energy |  |
| Jewell, Michael | Pattern Energy | Via Teleconference |
| Johnson, Shannon | PEC | Via Teleconference |
| Jones, Monica | CNP | Via Teleconference |
| Jones, Randy | Mountaineer Market Advisors | Via Teleconference |
| Joncic, Gordon | CNP | Via Teleconference |
| Julia, Ana |  | Via Teleconference |
| Kee, David | CPS Energy | Via Teleconference |
| Keefer, Andrew | City of Denton | Via Teleconference |
| Keller, Jenna | Potomac Economics | Via Teleconference |
| Koz, Brian |  | Via Teleconference |
| Lotter, Eric | Grid Monitor | Via Teleconference |
| Macaraeg, Tad | Stem | Via Teleconference |
| McClellan, Suzi | Good Company Associates | Via Teleconference |
| McDaniel-Wyman, Constance | AEP Service Company | Via Teleconference |
| Melaerts, Sebastien |  | Via Teleconference |
| Miller, Alexandra | EDF Renewables | Via Teleconference |
| Moral Diaz, Ismael | Acciona | Via Teleconference |
| Oxendine, Helen | CPS Energy | Via Teleconference |
| Pearson, Kelsey | Longhorn Power | Via Teleconference |
| Petäjäsoja, Ida | Stem | Via Teleconference |
| Pokharel, Nabaraj | OPUC | Via Teleconference |
| Pyka, Greg | SEnergy | Via Teleconference |
| Reed, Ronald | CNP | Via Teleconference |
| Rich, Katie | Vistra |  |
| Richmond, Antonio | Acciona | Via Teleconference |
| Richmond, Michele | Texas Competitive Power Advocates (TCPA) | Via Teleconference |
| Scott, Kathy | CNP |  |
| Siddiqi, Shams | Crescent Power | Via Teleconference |
| Smith, Caitlin | Jupiter Power | Via Teleconference |
| Snyder, Bill | AEP Texas | Via Teleconference |
| Spencer, Mark | Linebacker Power, LLC |  |
| Stephenson, Zach | Texas Electric Cooperatives (TEC) | Via Teleconference |
| Thomas, Wayne | Bryan Texas Utilities (BTU) | Via Teleconference |
| Thurnher, Greg | Tesla Energy | Via Teleconference |
| True, Roy | ACES | Via Teleconference |
| Velasquez, Ivan | Oncor | Via Teleconference |
| White, Lauri | AEP Texas | Via Teleconference |
| Wilson, Joe Dan | Golden Spread Electric Cooperative (GSEC) | Via Teleconference |
| Winn, Aaron |  | Via Teleconference |
| Withrow, David | AEP | Via Teleconference |
| Wittmeyer, Bob | Longhorn Power |  |
| Zang, Hailing | TC Energy | Via Teleconference |
| Zhang, Bryan | Potomac Economics | Via Teleconference |
| Zhang, Mandy | GEUS | Via Teleconference |
| *ERCOT Staff* |  |  |
| Abbott, Kristin |  | Via Teleconference |
| Albracht, Brittney |  |  |
| Anderson, Troy |  |  |
| Boren, Ann |  |  |
| Castillo, Leo |  | Via Teleconference |
| Chen, Jian |  | Via Teleconference |
| Clifton, Suzy |  |  |
| Dashnyam, Sanchir |  | Via Teleconference |
| El-Madhoun, Mohamed |  | Via Teleconference |
| Garcia, Freddy |  | Via Teleconference |
| Gonzalez, Ino |  |  |
| Gross, Katherine |  | Via Teleconference |
| Hanson, Pamela |  | Via Teleconference |
| Heinrich, Holly |  | Via Teleconference |
| Lightner, Debbie |  | Via Teleconference |
| Holden, Curry |  | Via Teleconference |
| Mereness, Matt |  | Via Teleconference |
| Mago, Nitika |  | Via Teleconference |
| Matlock, Robert |  | Via Teleconference |
| Moreno, Alfredo |  | Via Teleconference |
| Opheim, Calvin |  |  |
| Patterson, Mark |  |  |
| Phillips, Cory |  |  |
| Ravulapalli, Sridevi |  | Via Teleconference |
| Roberts, Randy |  | Via Teleconference |
| Rosel, Austin |  | Via Teleconference |
| Shanks, Magie |  | Via Teleconference |
| Teixeira, Jay |  | Via Teleconference |
| Thomas, Shane |  |  |
| Troublefield, Jordan |  |  |
| Warnken, Pete |  | Via Teleconference |
| Wasik-Gutierrez, Erin |  | Via Teleconference |
| You, Haibo |  | Via Teleconference |
| Zeplin, Rachel |  | Via Teleconference |

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

Diana Coleman called the March 20, 2024 PRS meeting to order at 9:30 p.m.

Antitrust Admonition

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

Approval of Minutes (see Key Documents)[[1]](#footnote-2)

*February 8, 2024*

Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot](#Ballot).

Technical Advisory Committee (TAC) Update

Ms. Coleman reviewed the disposition of items considered at the February 14, 2024 TAC meeting.

Project Update (see Key Documents)

Troy Anderson provided project highlights, summarized 2024 release targets, noted major projects, and reviewed items on the additional project status information. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects and noted that new Revision Requests will have a change in Priority recommendation from “requested start year” to “most likely start year”. Mr. Anderson highlighted topics discussed at the February 22, 2024 Technology Working Group (TWG) meeting and encouraged Market Participants to attend the March 28, 2024 TWG meeting.

*Review of Aging Projects*

Mr. Anderson presented the 2024 Aging Projects spreadsheet, draft Gantt chart, and ERCOT recommendations for Revision Request projects that have been approved in recent years but have not yet been implemented in ERCOT systems. ERCOT staff has been reviewing these items and proposing next steps, including identifying some candidates to potentially be implemented without impacting the timeline of the Real-Time Co-optimization plus Batteries (RTC+B) project and other high priority projects and some other candidates to be implemented after the RTC+B project is complete. Mr. Anderson reviewed the process to remove an aging Revision Request and presented historical examples. In response to Market Participant questions and concerns on project constraints, Mr. Anderson discussed the resource capacity issues, noted that project costs are proxies for what resources ERCOT has available to allocate among the projects running concurrently. In response to Mr. Andersons’ request for market feedback on prioritizing Market Management System (MMS) items, Market Participants requested ERCOT consider the following MMS items for post RTC+B implementation:

* NPRR930, Process, Pricing, and Cost Recovery for Delayed Resource Outages
* NPRR987, BESTF-3 Energy Storage Resource Contribution to Physical Responsive Capability and Real-Time On-Line Reserve Capacity Calculations
* NPRR1019, Pricing and Settlement Changes for Switchable Generation Resources (SWGRs) Instructed to Switch to ERCOT
* NPRR1032, Consideration of Physical Limits of DC Ties in RUC Optimization and Settlements
* NPRR1057, Modification to Real-Time Hub Price Formulas for Fully De-Energized Hubs
* NPRR1105, Option to Deploy Distribution Voltage Reduction Measures Prior to Energy Emergency Alert (EEA) - Phase 2

Market Participants then requested ERCOT consider the following subset of MMS projects for potential to implement prior to RTC+B:

* NPRR1004, Load Distribution Factor Process Update
* NPRR1091, Changes to Address Market Impacts of Additional Non-Spin Procurement
* NPRR1006, Update Real-Time On-Line Reliability Deployment Price Adder Inputs to Match Actual Data
* NPRR1058, Resource Offer Modernization
* NPRR1128, Allow FFR Procurement up to FFR Limit Without Proration
* NPRR1171, Requirements for DGRs and DESRs on Circuits Subject to Load Shedding
* NPRR1213, Allow DGRs and DESRs on Circuits Subject to Load Shed to Provide ECRS

Mr. Anderson offered to review for efficiencies and provide an update at the April 5, 2024 PRS meeting.

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

*Nodal Protocol Revision Request (NPRR) NPRR1197, Optional Exclusion of Load from Netting at ERCOT-Polled Settlement (EPS) Metering Facilities which Include Resources*

Market Participants reviewed the 2/29/24 Impact Analysis for NPRR1197.

**Kevin Hanson move to endorse and forward to TAC the 2/8/24 PRS Report and 2/28/24 Impact Analysis for NPRR1197. Bill Barnes seconded the motion. The motion carried with one abstention from the Cooperative (STEC) Market Segment.** *(Please see ballot posted with Key Documents.)*

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

Market Participants reviewed the 10/24/23 Impact Analysis, Reason for Revision, and Justification of Reason for Revision and Market Impacts, and discussed the appropriate priority and rank for NPRR1205. Sanchir Dashnyam responded to Market Participant questions and concerns on cost impacts. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot](#Ballot).

Revision Requests Tabled at PRS (see Key Documents)

*NPRR956, Designation of Providers of Transmission Additions*

*NPRR1070, Planning Criteria for GTC Exit Solutions*

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

*NPRR1180, Inclusion of Forecasted Load in Planning Analyses*

*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*

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

*NPRR1215, Clarifications to the Day-Ahead Market (DAM) Energy-Only Offer Calculation*

*NPRR1216, Implementation of Emergency Pricing Program*

*System Change Request (SCR) 826, ERCOT.com Enhancements*

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

PRS took no action on these items.

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

Calvin Opheim provided an overview of NPRR1212. In response to Market Participant questions, Calvin

Opheim noted that ERCOT is not impacted by the various comments filed. Martha Henson reviewed the 2/22/24 Oncor comments to NPRR1212. Market Participants reviewed the 3/19/24 Aypa Power comments and offered clarifications to paragraph (2)(c) of Section 10.3.2, ERCOT-Polled Settlement Meters, of the 2/22/24 Oncor comments, removing conditional Distribution Service Provider (DSP) tariff and Standard Generation Interconnection Agreement (SGIA) language regarding DSPs providing ESI ID(s) to ERCOT and Resource Entities. Lucas Turner reviewed the 1/5/24 STEC comments to NPRR1212.

**Mr. Hanson moved to recommend approval of NPRR1212 as amended by the 2/22/24 Oncor comments and as revised by PRS. Ryan Pfefferle seconded the motion. The motion carries with two abstentions from the COOP (STEC) and Investor Owned Utilities (IOU) (Linebacker Power, LLC) Market Segments.** *(Please see ballot posted with Key Documents.)*

Review of Revision Request Language (see Key Documents)

*NPRR1217, Remove Verbal Dispatch Instruction (VDI) Requirement for Deployment and Recall of Load Resources and Emergency Response Service (ERS) Resources*

Mark Patterson provided an overview of NPRR1217. Participants expressed concern that eliminating the VDI requirement removes a safety net confirmation and requested the issue be referred to ROS for further discussion. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot](#Ballot).

*NPRR1218, REC Program Changes Per P.U.C. SUBST. R. 25.173, Renewable Energy Credit Program*

Mr. Opheim provided an overview of NPRR1218. In response to Market Participants questions and concerns, Mr. Opheim stated that Renewable Energy Credits (RECs) are still being tracked and rewarded; and expressed support for the 3/15/24 Texas Energy Buyers Alliance comments. One participant requested tabling NPRR1218 in anticipation of upcoming comments. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot](#Ballot).

*NPRR1219, Methodology Revisions and New Definitions for the Report on Capacity, Demand and Reserves in the ERCOT Region (CDR)*

Pete Warnken provided an overview of NPRR1219. 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](#Ballot). Mr. Hanson encouraged Market Participants to attend the March 22, 2024 Supply Analysis Working Group (SAWG) meeting to further discuss the issues.

Notice of Withdrawal (see Key Documents)

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

Cory Phillips noted the withdrawal of NPRR1209.

Combined Ballot

**Mr. Hanson moved to approve the Combined Ballot as follows:**

* **To approve the February 8, 2024 PRS Meeting Minute as presented**
* **To endorse and forward to TAC the 2/8/24 PRS Report and 10/24/23 Impact Analysis for NPRR1205 with a recommended priority of 2025 and rank of 4520**
* **To table NPRR1217 and refer the issue to ROS**
* **To table NPRR1218**
* **To table NPRR1219 and refer the issue to WMS**

**Eric Blakey 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 2024 PRS Goals to PRS leadership and stated that the 2024 PRS Goals will be considered at the April 5, 2024 PRS meeting.

*PRS Meeting Schedule*

Ms. Coleman noted that the rescheduled Friday, April 5, 2024 PRS meeting will be Webex only and the Thursday, May 9, 2024 PRS meeting will be in-person/Webex.

Adjournment

Ms. Coleman adjourned the March 20, 2024 PRS meeting at 11:53 a.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <https://www.ercot.com/calendar/03202024-PRS-Meeting> unless otherwise noted [↑](#footnote-ref-2)