**APPROVED**

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

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

**Thursday, February 8, 2024 – 9:30 a.m.**

Attendance

*PRS Representatives:*

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Abbott, Kristin | Austin Energy |  |
| Barnes, Bill | Reliant Energy Retail Services (Reliant) |  |
| Blakey, Eric | Pedernales Electric Cooperative |  |
| Coleman, Diana | CPS Energy |  |
| Goff, Eric | Residential Consumer |  |
| Hanson, Kevin | National Grid Renewables (NGR) | Via Teleconference |
| 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 |
| Varnell, John | Tenaska Power Services (Tenaska) |  |
| 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 |
| Anderson, Kevin | Customized Energy Solutions (CES) | Via Teleconference |
| Ashley, Kristy | CES | Via Teleconference |
| Benson, Mariah | TPPA |  |
| Barr, Bill | LCRA | Via Teleconference |
| Berry, DJ | LCRA | Via Teleconference |
| Bertin, Suzanne |  | Via Teleconference |
| Bivens, Carrie | NextEra | Via Teleconference |
| Blackburn, Don | Hunt Energy Network Power Marketing | Via Teleconference |
| Block, Lauri | L Block Consulting | Via Teleconference |
| Bonskowski, Ned | Luminant Corporation | Via Teleconference |
| Bracy, Phil | Texas Reliability Entity, Inc. (Texas RE) | Via Teleconference |
| Breiten, David | CPS Energy | Via Teleconference |
| Brown, Chris | PUCT | Via Teleconference |
| Bunch, Kevin | EDF Trading | Via Teleconference |
| Burke, Tom | RWE CE | Via Teleconference |
| Callender, Hudson | CPS Energy | Via Teleconference |
| Cochran, Seth | DC Energy | Via Teleconference |
| Colaço, Elíbia | Serena | Via Teleconference |
| Collard, Brad | PEC | Via Teleconference |
| Cooksey, Matthew | OPUC | Via Teleconference |
| Cortez, Sarai | Trailstone | Via Teleconference |
| Cotton, Ashley | GEUS | Via Teleconference |
| Cox, Jason | EQ Energy Advisors | Via Teleconference |
| Crist, Kelly | Engie North America (ENGIE) | Via Teleconference |
| Curtin, Jim |  | Via Teleconference |
| Daigneault, Ralph | Potomac Economics | Via Teleconference |
| Davitt, Mike | Oncor | Via Teleconference |
| Dreyfus, Mark | MD Energy Consulting | Via Teleconference |
| Duensing, Allison | Sarac Energy | Via Teleconference |
| Espinosa, Chris | PCI | Via Teleconference |
| Favaro, Diego |  | Via Teleconference |
| Fink, Regan | PG Renewables | Via Teleconference |
| Fleming, Jackie | Talen Energy | Via Teleconference |
| Freeland, Lauren | Hunton Andrews Kurth | Via Teleconference |
| Gallagher-Moore, Connor |  | Via Teleconference |
| Galvin, Jim | United Cooperative Services (United) | Via Teleconference |
| Greaff, Venona | Oxy | Via Teleconference |
| Grimsley, Shawn | ENGIE | Via Teleconference |
| Guerreau, Olivier |  | Via Teleconference |
| Haley, Ian | Morgan Stanley |  |
| Hall, Matthew | Invenergy | Via Teleconference |
| Harvey, Julia | Texas Electric Cooperatives (TEC) | Via Teleconference |
| Headrick, Bridget | CES | Via Teleconference |
| Heino, Shari | Brazos Electric Cooperative (Brazos) |  |
| Helton, Bob | ENGIE |  |
| Hester, Doug | Talen Energy | Via Teleconference |
| Hjaltman, Courtney | Office of Public Utility Council (OPUC) | Via Teleconference |
| Hohenshilt, Jennifer | Talen Energy | Via Teleconference |
| Holt, Blake | Lower Colorado River Authority (LCRA) |  |
| Hubbard, John Russ | TIEC |  |
| Hughes, Lindsey |  | Via Teleconference |
| Ingraham, Deborah | Acciona | Via Teleconference |
| Jewell, Michael | Jewell and Associates | Via Teleconference |
| Johnson, Shannon | PEC | Via Teleconference |
| Jolly, Emily | LCRA | Via Teleconference |
| Jones, Liz | Oncor | Via Teleconference |
| Kilroy, Taylor | TPPA | Via Teleconference |
| Kimbrough, Mandy | NRG | Via Teleconference |
| Kirby, Brandon | GEUS | Via Teleconference |
| Koz, Brian | Wolframium Power | Via Teleconference |
| Lauderdale, Melissa | Gexa Energy | Via Teleconference |
| Lewis, William | Payless Power | Via Teleconference |
| Loarie, Jessica | Invenergy | Via Teleconference |
| Lotter, Eric | Grid Monitor | Via Teleconference |
| Loving, Alicia | Austin Energy | Via Teleconference |
| Macaraeg, Tad | Stem | Via Teleconference |
| Matt, Kevin | NRG | Via Teleconference |
| McClellan, Suzi | Good Company Associates | Via Teleconference |
| McDaniel-Wyman, Constance | AEP Service Company | 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 |
| Orr, Rob | Lone Star Transmission | Via Teleconference |
| Oxendine, Helen | CPS Energy | Via Teleconference |
| Pietrucha, Doug | AEE | Via Teleconference |
| Pokharel, Nabaraj | OPUC | Via Teleconference |
| Pyka, Greg | Schneider Engineering | Via Teleconference |
| Ramaswamy, Ramya | PUCT | Via Teleconference |
| Ratliff, Shannon |  | Via Teleconference |
| Rich, Katie | Vistra | Via Teleconference |
| Ritch, John | Trafigura | Via Teleconference |
| Sams, Bryan | Calpine Corporation | Via Teleconference |
| Sersen, Juliana | Baker Botts | Via Teleconference |
| Shaffer, Jarred | Office of Texas Governor Greg Abbott | Via Teleconference |
| Siddiqi, Shams | Crescent Power | Via Teleconference |
| Smith, Caitlin | Jupiter Power | Via Teleconference |
| Smith, Mark | Steel Mills | Via Teleconference |
| Smith, Stephanie | Eolian Energy | Via Teleconference |
| Stephenson, Zach | TEC | Via Teleconference |
| Stice, Clayton |  |  |
| Strand, Henrik |  | Via Teleconference |
| Surendran, Resmi | Shell Energy North America | Via Teleconference |
| Thomas, Wayne | BTU | Via Teleconference |
| Tomaino, Christian | Tenaska | Via Teleconference |
| Trevino, Melissa | Occidental Chemical | Via Teleconference |
| True, Roy | ACES | Via Teleconference |
| Urbantke, Tab |  | Via Teleconference |
| Van Winkle, Kim | PUCT | Via Teleconference |
| Velasquez, Ivan | Oncor | Via Teleconference |
| Walcavich, Colin | NG Renewables | Via Teleconference |
| Walker, Floyd | PUCT | Via Teleconference |
| Wall, Perrin | CenterPoint Energy | Via Teleconference |
| White, Lauri | AEP Texas | Via Teleconference |
| Williams, Wes | Bryan Texas Utilities | Via Teleconference |
| Withrow, David | AEP |  |
| Wittmeyer, Bob | Longhorn Power |  |
| Xie, Fei | Austin Energy | Via Teleconference |
| Zang, Hailing | TC Energy | Via Teleconference |
| Zhang, Bryan | Potomac Economics | Via Teleconference |
| Zhang, Mandy | GEUS | Via Teleconference |
| *ERCOT Staff* |  |  |
| Albracht, Brittney |  |  |
| Anderson, Troy |  |  |
| Arth, Matthew |  |  |
| Billo, Jeff |  |  |
| Boren, Ann |  |  |
| Carswell, Cory |  | Via Teleconference |
| Castillo, Leo |  | Via Teleconference |
| Chen, Jian |  | Via Teleconference |
| Christy, Steve |  | Via Teleconference |
| Clifton, Suzy |  |  |
| Devadhas Mohanadha, Thinesh |  | Via Teleconference |
| Garcia, Freddy |  | Via Teleconference |
| Gonzalez, Ino |  | Via Teleconference |
| Gross, Katherine |  | Via Teleconference |
| Hanson, Pamela |  | Via Teleconference |
| King, Ryan |  | Via Teleconference |
| Holden, Curry |  | Via Teleconference |
| Magarinos, Marcelo |  | Via Teleconference |
| Maul, Donald |  | Via Teleconference |
| Mereness, Matt |  | Via Teleconference |
| Mago, Nitika |  | Via Teleconference |
| Maggio, Dave |  | Via Teleconference |
| Martinez, Adam |  | Via Teleconference |
| Matlock, Robert |  | Via Teleconference |
| Maul, Donald |  | Via Teleconference |
| Miller, Megan |  | Via Teleconference |
| Moreno, Alfredo |  | Via Teleconference |
| Opheim, Calvin |  | Via Teleconference |
| Phillips, Cory |  |  |
| Roberts, Randy |  | Via Teleconference |
| Rosel, Austin |  | Via Teleconference |
| Rowe, Evan |  | Via Teleconference |
| Schmidt, Matthew |  | Via Teleconference |
| Shanks, Magie |  | Via Teleconference |
| Shaw, Pamela |  | Via Teleconference |
| Smith, Nathan |  | Via Teleconference |
| Solis, Stephen |  | Via Teleconference |
| Troublefield, Jordan |  |  |
| You, Haibo |  | Via Teleconference |

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

Diana Coleman called the February 8, 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)

*January 11, 2024*

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

Technical Advisory Committee (TAC) Update

Ms. Coleman reviewed the disposition of items considered at the January 24, 2024 TAC meeting.

Project Update (see Key Documents)

Troy Anderson provided project highlights, summarized 2024 release targets, noted major projects, reviewed additional project status information, and respondedto Market Participant questions and concerns. Mr. Anderson presented the priority and rank options for the Revision Request requiring a project. Mr. Anderson encouraged Market Participants to attend the February 22, 2024 Technology Working Group (TWG) meeting.

*Review of Aging Projects*

Mr. Anderson presented the 2024 Aging Projects spreadsheet and suggested approach for consideration of various Revision Request projects that potentially could be implemented without impacting the timeline for the Real-Time Co-optimization plus Batteries (RTC+B) project and other high priority projects. Mr. Anderson reviewed the project summary counts, ERCOT Staff notes, and high priority items; requested Market Participants feedback on items for consideration; and responded to Market Participant questions and concerns regarding prioritization and the current volume of projects not started or on hold. Some Market Participants suggested ERCOT provide a road map or mitigation strategy for efficiencies in implementing the approved projects. Mr. Anderson encouraged Market Participants to contact him in advance of the March 2024 PRS meeting to nominate additional projects for consideration.

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

*Nodal Protocol Revision Request (NPRR)* *1210, Next Start Resource Test and Load-Carrying Test Frequency*

Market Participants reviewed the 11/15/23 Impact Analysis for NPRR1210. Ms. Coleman noted this item could be considered for inclusion the [Combined Ballot](#Ballot).

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

Jeff Billo summarized the 2/7/24 ERCOT comments to NPRR1213. Market Participants reviewed the 2/6/24 Impact Analysis, the Reason for Revision, and the Justification of Reason for Revision and Market Impacts for NPRR1213. Dave Maggio responded to Market Participants’ questions and concerns regarding which Resource types were allowed to participate in the respective Ancillary Service self-arrangements and Ancillary Service Trades. Market Participants discussed the appropriate priority and rank for NPRR1213. Ms. Coleman noted this item could be considered for inclusion 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*

*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*

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

*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.

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

Shawn Grimsley provided an overview of NPRR1197. Bob Helton reviewed the 2/2/24 Engie comments to NPRR1197. Martha Henson summarized the 2/7/24 Oncor comments to NPRR1197. John Russ Hubbard offered clarifications to NPRR1197. Opponents restated their concern that NPRR1197 codifies into Protocols the metering situation they’d attempted to prohibit in the recently rejected NPRR1194, Wholesale Storage Load Auxiliary Netting.

**Mr. Helton moved to recommend approval of NPRR1197 as amended by the 2/7/24 Oncor comments as revised by PRS. Ms. Henson seconded the motion. The motion carried with one objection from the Cooperative (STEC) Market Segment and three abstentions from the Consumer (Residential Consumer), Cooperative (Brazos), and Independent Generator (Constellation) Market Segments.** *(Please see ballot posted with Key Documents.)*

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

Doug Fohn reviewed the 2/7/24 ERCOT comments to NPRR1199, requested PRS grant Urgent status for NPRR1199 consideration at the February 14, 2024 TAC meeting, and responded to Market Participant questions and concerns. Blake Holt reviewed the 2/7/24 LCRA comments to NPRR1199. Ms. Henson offered clarifications to NPRR1199. Opponents reiterated their concerns that they may be unable to properly assess their impacted equipment and attest to its security from LSIPA Designated Country and/or LSIPA Designated Company control, as required by the LSIPA and further codified by NPRR1199. Market Participants reviewed the 9/6/23 Impact Analysis to NPRR1199.

**Bill Barnes moved to grant NPRR1199 Urgent status; to recommend approval of NPRR1199 as amended by the 2/7/24 LCRA comments as revised by PRS; and to forward to TAC NPRR1199 and the 9/6/23 Impact Analysis. Mr. Holt seconded the motion. The motion carried with one objection from the Independent Power Marketer (IPM) (Tenaska) Market Segment and one abstention from the Independent Generator (Jupiter Power) Market Segment.**  *(Please see ballot posted with Key Documents.)*

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

Austin Rosel provided an overview of NPRR1205. Ned Bonskowski reviewed the 1/16/24 Luminant comments to NPRR1205. Market Participants noted the Credit Finance Sub Group (CFSG) endorsement of the 1/16/24 Luminant comments. Ms. Coleman noted this item could be considered for inclusion the [Combined Ballot](#Ballot).

Review of Revision Request Language (see Key Documents)

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

Curry Holden provided an overview of NPRR1215. Market Participants requested further review of the issues by the CFSG. Ms. Coleman noted this item could be considered for inclusion the [Combined Ballot](#Ballot).

*NPRR1216, Implementation of Emergency Pricing Program*

Mr. Maggio provided an overview of NPRR1216. Mr. Rosel summarized NPRR1216 and the related Revision Requests, Other Binding Document Revision Request (OBDRR) 051, and Verifiable Cost Manual Revision Request (VCMRR) 039, discussion at the February 7, 2024 Wholesale Market Subcommittee (WMS) meeting. Market Participants raised concerns with the timeline(s) for exiting an Emergency Pricing Program (EPP) period, potential impacts on submitted offers following an EPP, and requested additional discussion of the issues at WMS. Ms. Coleman noted this item could be considered for inclusion the [Combined Ballot](#Ballot).

Combined Ballot

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

* **To approve the January 11, 2024 PRS Meeting Minutes as presented**
* **To endorse and forward to TAC the 1/11/24 PRS Report and the 11/15/23 Impact Analysis for NPRR1210**
* **To endorse and forward to TAC the 1/11/24 PRS Report, as amended by the 2/7/24 ERCOT comments, and 2/6/24 Impact Analysis for NPRR1213 with a recommended priority of 2024 and rank of 4050**
* **To recommend approval of NPRR1205 as amended by the 1/16/24 Luminant comments**
* **To table NPRR1215 and refer the issue to the CFSG**
* **To table NPRR1216 and refer the issue to WMS**

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

Other Business

*2024 PRS Goals*

Market Participants reviewed draft 2024 PRS Goals and debated whether some items qualified as scope items or goals. Ms. Coleman encouraged Market Participants to offer potential revisions to PRS leadership, and stated that 2024 PRS Goals will be considered at the March 14, 2024 PRS meeting.

Adjournment

Ms. Coleman adjourned the February 8, 2024 PRS meeting at 11:56 a.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <https://www.ercot.com/calendar/02082024-PRS-Meeting> unless otherwise noted [↑](#footnote-ref-2)