**APPROVED**

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

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

**Wednesday, May 14, 2025** **– 9:30 a.m.**

Attendance

*PRS Representatives:*

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Barnes, Bill | Reliant Energy Retail Services (Reliant) | Via Teleconference |
| Bevill, Rob | Texas-New Mexico Power (TNMP) |  |
| Blakey, Eric | Pedernales Electric Cooperative (PEC) |  |
| Coleman, Diana | CPS Energy |  |
| Darden, Austin | Just Energy | Via Teleconference |
| Goff, Eric | Residential Consumer  |  |
| Lee, Jim | CenterPoint Energy (CNP) |   |
| Nguyen, Andy | Constellation Energy Generation (Constellation) |   |
| Thomas, Shane | Shell Energy North America (SENA) |  |
| Trevino, Melissa | Occidental Chemical (Occidental) | Via Teleconference |
| Turner, Lucas | South Texas Electric Cooperative (STEC) | Via Teleconference |
| Varnell, John | Tenaska Power Services (Tenaska) |  |
| Xie, Fei | Austin Energy | Via Teleconference |
|  |  |  |
| *Guests:* |  |  |
| Ainspan, Malcolm |  | Via Teleconference |
| Allen, Thresa | Avangrid | Via Teleconference |
| Anderson, Connor | AB Power Advisors | Via Teleconference |
| Anderson, Kevin | Customized Energy Solutions (CES) | Via Teleconference |
| Ashley, Kristy | CES | Via Teleconference |
| Basaran, Harika | Public Utility Commission of Texas (PUCT) | Via Teleconference |
| Benson, Mariah | Texas Public Power Association (TPPA) | Via Teleconference |
| Berg, Justin | EQ | Via Teleconference |
| Bertin, Suzanne |  | Via Teleconference |
| Block, Laurie | L Block Consulting | Via Teleconference |
| Boggs, Callie | Eric Winters Goff, LLC | Via Teleconference |
| Bonskowski, Ned | Vistra Operations Company | Via Teleconference |
| Brasel, Kade | CPS Energy | Via Teleconference |
| Breiten, David | CPS Energy | Via Teleconference |
| Brown, Chris | PUCT |  |
| Bulzak, Jacob | PUCT | Via Teleconference |
| Cardiel, Jonathan | PUCT | Via Teleconference |
| Carswell, Cory | Brownsville Public Utilities | Via Teleconference |
| Chan, Vanessa | ENEL | Via Teleconference |
| Cochran, Seth | Vitol | Via Teleconference |
| Cotton, Ashley | GEUS | Via Teleconference |
| Dollar, Zachary | PUCT | Via Teleconference |
| Donohoo, Ken | OwlERC, LLC | Via Teleconference |
| Dreyfus, Mark | City of Eastland |  |
| Eedupuganti, Subbarao |  | Via Teleconference |
| Fink, Regan | PG Renewables | Via Teleconference |
| George, Ian |  | Via Teleconference |
| Gilman, Portia | Yes Energy | Via Teleconference |
| Goff, Eric | Texas Solar and Storage Association (TSSA) for NPRR1282 Only  |  |
| Graham, Greg | CimView | Via Teleconference |
| Greer, Clayton | Cholla Petroleum | Via Teleconference |
| Haley, Ian | Morgan Stanley | Via Teleconference |
| Hanson, Kevin | Invenergy |  |
| Harriman, Chien Si | Eolian | Via Teleconference |
| Helton, Bob | Engie North America (Engie) |  |
| Hemline, Charlie | American Clean Power Association |  |
| Henson, Martha | Oncor Electric Delivery (Oncor) | Via Teleconference |
| Hinds, David | Lower Colorado River Authority (LCRA) | Via Teleconference |
| Holt, Blake | LCRA |  |
| Huang, Mandy | Grid Beyond | Via Teleconference |
| Hubbard, John Russ | Texas Industrial Energy Consumers (TIEC) | Via Teleconference |
| Huynh, Thuy | Potomac Economics | Via Teleconference |
| Jahan, Mo |  | Via Teleconference |
| Jewell, Michael | Jewell and Associates | Via Teleconference |
| Jones, Monica | CNP | Via Teleconference |
| Kee, David | CPS Energy | Via Teleconference |
| Keller, Jenna | PUCT | Via Teleconference |
| Kirby, Brandon |  | Via Teleconference |
| Langdon, James | Vistra | Via Teleconference |
| Lotter, Eric | GridMonitor | Via Teleconference |
| Lu, Bo | Engie | Via Teleconference |
| Macaraeg, Tad | Stem | Via Teleconference |
| Mayzenberg, Anna | Key Capture Energy | Via Teleconference |
| McClellan, Suzi | Good Company Associates | Via Teleconference |
| McDonell, Glenn |  | Via Teleconference |
| McIntyre, Ken | Plus Power | Via Teleconference |
| McKeever, Debbie | Oncor | Via Teleconference |
| Meaders, Mandy | Plus Power | Via Teleconference |
| Mulholland, Chad | NRG | Via Teleconference |
| Nicholson, Tyler | PUCT  | Via Teleconference |
| Pearson, Arthur |  | Via Teleconference |
| Pietrucha, Doug | TAEBA | Via Teleconference |
| Pilot, Henry |  | Via Teleconference |
| Pokharel, Nabaraj | Office of Public Utility Counsel (OPUC) | Via Teleconference |
| Rasmussen, Erin | AEP |  |
| Reedy, Nick | CimView | Via Teleconference |
| Reimers, Andrew | Potomac Economics |  |
| Rich, Katie | Vistra Operations Company  |  |
| Rico, Guillermo | CPS Energy |  |
| Ritch, John | Trafigura | Via Teleconference |
| Rochelle, Jenni | CES | Via Teleconference |
| Safko, Trevor | LCRA |  |
| Sams, Bryan | Calpine Corporation (Calpine) |  |
| Scott, Kathy | CNP |  |
| Seibel, Alexander | OCI Energy | Via Teleconference |
| Sersen, Juliana | Baker Botts | Via Teleconference |
| Siddiqi, Shams | Rainbow Energy Marketing Corporation | Via Teleconference |
| Slaughter, Jeff |  | Via Teleconference |
| Smith, Caitlin | Jupiter Power |  |
| Smith, Chase | Southern Power | Via Teleconference |
| Smith, Mark | CMC Steel Texas |  |
| Snyder, Bill | AEP Texas | Via Teleconference |
| Tadlock, Brittany | GEUS | Via Teleconference |
| Teng, Shuye | Constellation | Via Teleconference |
| Thomas, Wayne | BTU | Via Teleconference |
| Townsend, Paul | Texas Competitive Power Advocates (TCPA) | Via Teleconference |
| True, Roy | ACES | Via Teleconference |
| Uy, Manny | Hunt Energy | Via Teleconference |
| Velasquez, Ivan | Oncor | Via Teleconference |
| Wagner, Julie | PUCT | Via Teleconference |
| Walker, Floyd | PUCT  | Via Teleconference |
| Watson, Markham |  | Via Teleconference |
| Welborn, Laura |  | Via Teleconference |
| Willard, Daniel |  | Via Teleconference |
| Wilson, Joe Dan | GSEC |   |
| Withrow, David | AEPSC |  |
| Withrow, Kent | CES | Via Teleconference |
| Wittmeyer, Bob | Longhorn Power |  |
| Zang, Hailing | TC Energy | Via Teleconference |
| *ERCOT Staff* |  |  |
| Abbott, Kristin |  | Via Teleconference |
| Albracht, Brittney |  | Via Teleconference |
| Anderson, Troy |  |   |
| Arth, Matt |  | Via Teleconference |
| Azeredo, Chris |  | Via Teleconference |
| Billo, Jeff |  |  |
| Boren, Ann |  |   |
| Chen, Jian |  | Via Teleconference |
| Chu, Zhengguo |  | Via Teleconference |
| Clifton, Suzy |  |  |
| Collins, Keith |  | Via Teleconference |
| Cortez, Sarai |  | Via Teleconference |
| Drake, Gordon |  |  |
| Fernandes, Jenifer |  | Via Teleconference |
| Findley, Samantha |  | Via Teleconference |
| Garcia, Freddy |  | Via Teleconference |
| Gonzales, Nathan |  |  |
| Gonzalez, Ino |  | Via Teleconference |
| Gross, Katherine |  | Via Teleconference |
| Huang, Fred |  |  |
| Johnson, Blane |  |  |
| Kang, Sun Wook |  | Via Teleconference |
| Klinglesmith, William |  | Via Teleconference |
| Lee, Alex |  | Via Teleconference |
| Lightner, Debbie |  | Via Teleconference |
| Madam, Vamsi |  | Via Teleconference |
| Magarinos, Marcelo |  | Via Teleconference |
| Maggio, Dave |  | Via Teleconference |
| Mago, Nitika |  |  |
| Matlock, Robert |  | Via Teleconference |
| McGuire, Josh |  | Via Teleconference |
| Moorty, Sai |  |  |
| Phillips, Cory |  |   |
| Raish, Carl |  | Via Teleconference |
| Rosel, Austin |  |  |
| Schmidt, Matthew |  | Via Teleconference |
| Shanks, Magie |  | Via Teleconference |
| Sheets, Jarod |  | Via Teleconference |
| Sills, Alex |  |  |
| Simons, Diane |  | Via Teleconference |
| Springer, Agee |  |  |
| Sweeney, Carolyn |  | Via Teleconference |
| Thatte, Anupam |  | Via Teleconference |
| Troublefield, Jordan |  |  |
| Wasik-Gutierrez, Erin |  | Via Teleconference |
| Zhang, Jennifer |  | Via Teleconference |
| Zhou, Xiaolu |  | Via Teleconference |

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

Diana Coleman called the May 14, 2025 PRS meeting to order at 9:30 a.m.

Antitrust Admonition

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

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

*April 9, 2025*

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 April 23, 2025 TAC meeting.

Project Update (see Key Documents)

Troy Anderson provided project highlights; summarized 2025 release targets, including NPRR1253, Incorporate ESR Charging Load Information into ICCP, and its implementation; reviewed the major projects timeline; and presented the priority and rank options for Revision Requests requiring projects. Mr. Anderson summarized topics discussed at the April 24, 2025 Technology Working Group (TWG) meeting and encouraged participants to attend the May 29, 2025 TWG meeting.

Mr. Anderson reviewed the need to reprioritize pending Revision Requests projects after the Real-Time Co-optimization plus Batteries (RTC+B) project is implemented and in consideration of legislative priorities. Mr. Anderson presented the “Aging Projects Relating to Revision Requests” list used in 2024, highlighted 2025 updates since last year’s review, and presented a proposed PRS review timeline.

Urgency Vote (See Key Documents)

*Nodal Protocol Revision Request (NPRR) 1282, Ancillary Service Duration under Real-Time Co-Optimization*

Nitika Mago provided an overview of NPRR1282. Dave Maggio reviewed the request for Urgent Status and the 5/12/25 ERCOT comments to NPRR1282. Andrew Reimers reviewed the 5/13/25 IMM comments; Caitlin Smith and Bob Helton reviewed the 5/12/25 Joint Commentor comments; and Eric Goff, representing Texas Solar and Storage Association (TSSA), reviewed the 5/13/25 TSSA comments to NPRR1282. Participants debated the applicability of past system behaviors and events to Real-Time Co-optimization (RTC), the appropriate duration requirements for Ancillary Services (particularly Non-Spinning Reserve [Non-Spin]) under RTC, and the processes by which duration limits set under NPRR1282 would be monitored and analyzed for modification after RTC go-live. Harika Basaran reminded participants of the finding and next steps identified in Section 7D of the Commission Findings and Final Report filed on January 14, 2025 in Project No. 55845 - Review of Ancillary Services in the ERCOT Market.

**Katie Rich moved to grant NPRR1282 Urgent status. Blake Holt seconded the motion. The motion carried with one abstention form the Consumer (CMC Steel) Market Segment.** *(Please see ballot posted with Key Documents.)*

**Ms. Rich moved to recommend approval of NPRR1282 as submitted and to forward to TAC NPRR1282 and the 4/29/25 Impact Analysis. Mr. Holt seconded the motion. The motion carried with nine objections from the Consumer (2) (OPUC, CMC Steel), Independent Generator (5) (Jupiter Power, Engie, Southern Power, Eolian, Invenergy), Independent Power Marketer (IPM) (Vitol), and Municipal (CPS Energy) Market Segments and two abstentions from the Consumer (Occidental) and IPM (Tenaska) Market Segments.** *(Please see ballot posted with Key Documents.)*

*NPRR1283, Modification of SSR Mitigation Timeline*

Agee Springer provided an overview of NPRR1283 and the request for Urgent Status. Participants discussed the potential negative impacts of NPRR1283 on projects currently in the interconnection process and requested additional review by the Reliability and Operations Subcommittee (ROS) of the appropriate timeline for identifying and addressing Subsynchronous Ferroresonance (SSFR) in the planning process within the Protocols and Planning Guide. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

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

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

Mr. Maggio reviewed the 5/13/25 Impact Analysis details and requested additional time to develop formal comments to correct and clarify NPRR1214’s language. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

*NPRR1226, Estimated Demand Response Data*

Participants reviewed the 5/5/25 Impact Analysis, discussed an appropriate priority and rank for NPRR1226, and reviewed a desktop edit to relocate a posting requirement within paragraph (2) of Section 6.3.2, Activities for Real-Time Operations. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

*NPRR1238, Voluntary Registration of Loads with Curtailable Load Capabilities*

Joe Dan Wilson noted potential compliance risks if NPRR1238 is not approved and cited issues remaining in Senate Bill 6’s (SB6’s) development. Fred Huang summarized the 5/7/25 ERCOT comments to NPRR1238. Participants reviewed the 5/13/25 Impact Analysis and discussed the appropriate priority and rank for NPRR1283. Some participants expressed concerns for the cost benefit of NPRR1238 and whether it should be tabled pending SB6’s resolution.

**Mr. Wilson moved to endorse and forward to TAC the 4/9/25 PRS Report as amended by the 5/7/25 ERCOT comments and 5/13/25 Impact Analysis for NPRR1238 with a recommended priority of 2026 and rank of 4535. John Varnell seconded the motion. The motion carried with two abstentions from the Consumer (Occidental) and Independent Generator (Eolian) Market Segments.** *(Please see ballot posted with Key Documents.)*

*NPRR1267, Large Load Interconnection Status Report*

Participants reviewed the 5/13/25 Impact Analysis and discussed an appropriate priority and rank for NPRR1267. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

*NPRR1275, Expansion of Qualifying Pipeline Definition for Firm Fuel Supply Service in Phase 3*

PRS took no action on this item.

*NPRR1276, Move OBD to Section 22 – Emergency Response Service Procurement Methodology*

Participants reviewed the 3/10/25 Impact Analysis for NPRR1276. 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*

*NPRR1202, Refundable Deposits for Large Load Interconnection Studies*

*NPRR1235, Dispatchable Reliability Reserve Service as a Stand-Alone Ancillary Service*

*NPRR1255, Introduction of Mitigation of ESRs*

*NPRR1263, Remove Accuracy Testing Requirements for CCVTs*

*NPRR1264, Creation of a New Energy Attribute Certificate Program*

*NPRR1265, Unregistered Distributed Generator*

*NPRR1266, Opt-Out Status Held by a Transmission-Voltage Customer Cannot be Transferred*

*NPRR1272, Voltage Support at Private Use Networks*

*NPRR1274, RPG Estimated Capital Cost Thresholds of Proposed Transmission Projects*

*SCR826, ERCOT.com Enhancements*

*SCR831, Short Circuit Model Integration*

PRS took no action on these items.

*NPRR1277, Revisions to EAL Formula*

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

Review of Revision Request Language (see Key Documents)

*NPRR1278, Establishing Advanced Grid Support Service as an Ancillary Service*

Mr. Helton provided an overview of NPRR1278 and its alternative approach to the solution proposed in NOGRR272, Advanced Grid Support Requirements for Inverter-Based ESRs, and requested review of the issues identified by ROS and the Wholesale Market Subcommittee (WMS). Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

*NPRR1279, Reinstate Enhancements to the Exceptional Fuel Cost Process*

Andy Nguyen provided an overview of NPRR1279. Participants requested additional review of the issues by WMS. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

*NPRR1280, Establish Process for Permanent Bypass of Series Capacitor*

Sun Wook Kang provided an overview of NPRR1280. Participants requested addition review of the issues by ROS. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

*NPRR1281, Improvements to Alternate FFSS Resource Designation*

Mr. Holt provided an overview of NPRR1281. Ms. Coleman noted this item could be considered for inclusion in the [Combined Ballot.](#Ballot)

*NPRR1282, Ancillary Service Duration under Real-Time Co-Optimization*

This item was considered above with Urgent status.

*NPRR1283, Modification of SSR Mitigation Timeline*

This item was considered above with Urgent status.

Notice of Withdrawal

*NPRR1262, Ancillary Service Opt Out Clarification*

Ms. Coleman noted the withdrawal of NPRR1262.

Other Business

*2026 Block Calendar*

Participants reviewed the 2026 Block Calendar and expressed support for the proposed 2026 PRS meeting dates.

Combined Ballot

**Kevin Hanson moved to approve the Combined Ballot as follows:**

* **To approve the April 9, 2025 PRS meeting minutes as presented**
* **To table NPRR1283 and refer the issue to ROS**
* **To table NPRR1214**
* **To endorse and forward to TAC the 3/12/25 PRS Report as revised by PRS and 5/5/25 Impact Analysis for NPRR1226 with a recommended priority of 2026 and rank of 4770**
* **To endorse and forward to TAC the 4/9/25 PRS Report and 5/13/25 Impact Analysis for NPRR1267 with a recommended priority of 2026 and rank of 4760**
* **To endorse and forward to TAC the 4/9/25 PRS Report and 3/10/25 Impact Analysis for NPRR1276**
* **To recommend approval of NPRR1277 as submitted**
* **To table NPRR1278 and refer the issue to ROS and WMS**
* **To table NPRR1279 and refer the issue to WMS**
* **To table NPRR1280 and refer the issue to ROS**
* **To recommend approval of NPRR1281 as submitted**

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

Adjournment

Ms. Coleman adjourned the May 14, 2025 PRS meeting at 1:12 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <https://www.ercot.com/calendar/05142025-PRS-Meeting> unless otherwise noted. [↑](#footnote-ref-2)