**APPROVED**

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

**Webex Only**

**Tuesday, December 14, 2021 – 9:30 a.m.**

Attendance

*Members:*

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Barnes, Bill | Reliant Energy Retail Services |  |
| Blakey, Eric | Just Energy |  |
| Coleman, Diana | CPS Energy |  |
| Day, Smith | Denton Municipal Electric |  |
| Goff, Eric | Residential Consumer |  |
| Greer, Clayton | Morgan Stanley |  |
| Gross, Blake | AEP Service Corporation |  |
| Haley, Ian | Luminant Generation |  |
| Henson, Martha | Oncor |  |
| Mindham, David | EDP Renewables |  |
| Rich, Katie | Golden Spread Electric Cooperative |  |
| Trevino, Melissa | Occidental Chemical |  |
| Turner, Lucas | South Texas Electric Cooperative |  |
| Varnell, John | Tenaska Power Services |  |
|  |  |  |
| *Guests:* |  |  |
| Abbott, Kristin | Austin Energy |  |
| Aldridge, Ryan | AB Power Advisors |  |
| Alford, Anthony | CenterPoint Energy |  |
| Anderson, Connor | AB Power Advisors |  |
| Ashley, Kristy | Customized Energy Solutions |  |
| Benson, Mariah | PUCT |  |
| Bivens, Carrie | Potomac Economics |  |
| Blackburn, Don | Hunt Energy Network Power Marketing |  |
| Bruce, Mark | Cratylus Advisors |  |
| Bunch, Kevin | EDF Trading |  |
| Bunyan, Michael | Jupiter Power |  |
| Burke, Tom | Invenergy |  |
| Camet, Brooke | OPUC |  |
| Campo, Curtis | Garland Power and Light |  |
| Chhajed, Pushkar | Lower Colorado River Authority |  |
| Claiborn-Pinto, Shawnee | PUCT |  |
| Cochran, Seth | DC Energy |  |
| Cortez, Sarai | Hunt Utility |  |
| Cotton, Ashley | GEUS |  |
| Coultas, Ann | Enel Green Power |  |
| Cripe, Ramsey | Schneider Engineering |  |
| Daigneault, Ralph | Potomac Economics |  |
| Detelich, David | CPS Energy |  |
| Downey, Marty |   |  |
| Dreyfus, Mark | City of Eastland |  |
| Harvey, Julia | Texas Electric Cooperatives |  |
| Heino, Shari | Brazos Electric Cooperative |  |
| Hinds, David | Lower Colorado River Authority |  |
| Huynh, Thuy | Potomac Economics |  |
| Jackson, Dan | ETC Endure Energy |  |
| Johnson, Anthony | CenterPoint Energy |  |
| Jolly, Emily | Lower Colorado River Authority |  |
| Kee, David | CPS Energy |  |
| Khayat, Maribel | CenterPoint Energy |  |
| Kilroy, Taylor | TPPA |  |
| Lasher, Warren | Lasher Energy Consulting |  |
| Lee, Jim | AEP TX |  |
| Lotter, Eric | Grid Monitor |  |
| Loyferman, Larisa | CenterPoint Energy |  |
| Lu, Bo | Broad Reach Power |  |
| Matt, Kevin | NRG |  |
| McKeever, Debbie | Oncor |  |
| Miller, Alexandra | EDF |  |
| Musher, Danny | Key Capture Energy |  |
| Nguyen, Andy  | Lower Colorado River Authority |  |
| Price, Chris | 61 Commodities |  |
| Pyka, Greg | Schneider Engineering |  |
| Rainwater, Kim | Lower Colorado River Authority |  |
| Ramaswamy, Ramya | PUCT |  |
| Reed, Carolyn | CenterPoint Energy |  |
| Reedy, Steve | CIM View Consulting |  |
| Rehfeldt, Diana | TNMP |  |
| Reid, Walter | APA |  |
| Richmond, Michele | TCPA |  |
| Ritch, John | Gexa Energy |  |
| Sams, Bryan | Calpine |  |
| Sauter, Megan | Oncor |  |
| Scott, Kathy | CenterPoint Energy |  |
| Shumate, Walt |  |  |
| Siddiqi, Shams | Crescent Power Consulting |  |
| Simpson, Lori | Exelon |  |
| Sithuraj, Murali | Austin Energy |  |
| Smith, Caitlin | Jupiter Power |  |
| Smith, Chase | Southern Power |  |
| Thomas, Wayne | BTU |  |
| Townsend, Aaron | Potomac Economics |  |
| Troy, Roy | ACES Power |  |
| Turner, Chase | Energy Transfer |  |
| Uy, Manny | Hunt Energy |  |
| Velasquez, Ivan | Oncor |  |
| White, Lauri | AEP |  |
| Wiegand, Sheri | TXU |  |
| Wittmeyer, Bob | Longhorn Power  |  |
| Xie, Fei | Austin Energy |  |
| Zhang, Bryan | Potomac Economics |  |
| *ERCOT Staff* |  |  |
| Albracht, Brittney |  |  |
| Anderson, Troy |  |  |
| Ayson, Janice |  |  |
| Bauld, Mandy |  |  |
| Bernecker, John |  |  |
| Bezzam, Joseph |  |  |
| Billo, Jeff |  |  |
| Boren, Ann |  |  |
| Bracy, Phil  |   |  |
| Castillo, Leo |  |  |
| Chen, Yong |  |  |
| Clifton, Suzy |  |  |
| Day, Betty |  |  |
| Fleming, Lauren |  |  |
| Flores, Isabel |  |  |
| Garcia, Freddy |  |  |
| Gonzalez, Ino |  |  |
| Hobbs, Kristi |  |  |
| House, Donald |  |  |
| Huang, Fred |  |  |
| Jasper, Madeline |  |  |
| Jenkins, Darrell |  |  |
| Kane, Erika |  |  |
| Lowe, William |  |  |
| Maggio, Dave |  |  |
| Mago, Nitika |  |  |
| Matlock, Robert |  |  |
| Mereness, Matt |  |  |
| Michelsen, David |  |  |
| Moreno, Alfredo |  |  |
| Pedigo, Jake |  |  |
| Phillips, Cory |  |  |
| Roberts, Randy |  |  |
| Ruane, Mark |  |  |
| Shaw, Pamela |  |  |
| Smith, Nathan |  |  |
| Solis, Stephen |  |  |
| Stice, Clayton |  |  |
| Thomas, Shane |  |  |
| Thurman, Kathryn |  |  |
| Tirupati, Venkata |  |  |
| Troublefield, Jordan |  |  |
| Woodfin, Dan |  |  |
| Xiao, Hong |  |  |
| Zeplin, Rachel |  |  |

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

Martha Henson called the December 14, 2021 PRS meeting to order at 9:30 a.m.

Antitrust Admonition

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

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

*November 10, 2021*

*November 17, 2021*

Market Participants reviewed the November 10, 2021 and November 17, 2021 PRS Meeting Minutes. Ms. Henson noted these items could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Technical Advisory Committee (TAC) Update

Ms. Henson reviewed the disposition of items considered at the November 29, 2021 TAC meeting.

Project Update (see Key Documents)

Troy Anderson presented project highlights and reviewed the 2021 and 2022 release targets. Mr. Anderson noted the December 7, 2022 Technical Workshop for the Fast-Frequency Response (FFR) Advancement Project and stated ERCOT anticipates providing an alternate project delivery timeline at the February 9, 2022 PRS meeting. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects. Mark Ruane reviewed the implementation timeline and processes for Nodal Protocol Revision Request (NPRR) 1103, Securitization – PURA Subchapter M Default, stated that ERCOT will be bringing forth a Revision Request for Securitization – PURA Subchapter N Uplift Charges at the January 13, 2022 PRS meeting, and noted that information relevant to Securitization under House Bill 4492 is available on ercot.com at: <https://www.ercot.com/about/news/securitization>.

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

*NPRR1095, Texas SET V5.0 Changes*

*System Change Request (SCR) 817, Related to NPRR1095, MarkeTrak Validation Revisions Aligning with Texas SET V5.0*

Market Participants reviewed the 12/8/21 RMS comments to NPRR1095 and SCR817, and discussed the Impact Analysis, Business case, and appropriate priority and rank for NPRR1095 and SCR817. In response to Market Participant concerns regarding cost impacts of NPRR1095 and SCR817, Mr. Anderson detailed ERCOT’s multi-year, budget-conscious implementation plan. Ms. Henson noted these items could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*NPRR1098, Direct Current Tie (DC Tie) Reactive Power Capability Requirements*

Market Participants reviewed the 11/29/21 ERCOT comments, Impact Analysis, and appropriate priority and rank for NPRR1098. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*SCR816, Auction Bid Credit Enhancement*

Market Participants reviewed the Impact Analysis and appropriate priority and rank for SCR816. Ms. Henson 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*

*NPRR981, Day-Ahead Market Price Correction Process*

*NPRR1058, Resource Offer Modernization for Real-Time Co-Optimization*

*NPRR1067, Market Entry Qualifications, Continued Participation Requirements, and Credit Risk Assessment*

*NPRR1070, Planning Criteria for GTC Exit Solutions*

*NPRR1084, Improvements to Reporting of Resource Outages and Derates*

*NPRR1085, Ensuring Continuous Validity of Physical Responsive Capability (PRC) and Dispatch through Timely Changes to Resource Telemetry and Current Operating Plans (COPs)*

*NPRR1088, Applying Forward Adjustment Factors to Forward Market Positions and Un-applying Forward Adjustment Factors to Prior Market Positions*

*NPRR1089, Requiring Highest-Ranking Representative, Official, or Officer of a Resource Entity to Execute Weatherization and Natural Gas Declarations*

*NPRR1100, Emergency Switching Solutions for Energy Storage Resources*

*NPRR1108, ERCOT Shall Approve or Deny All Resource Outage Requests – URGENT*

PRS took no action on these items.

*NPRR1092, Remove RUC Offer Floor*

Market Participants reviewed NPRR1092 and the 12/6/21 ERCOT comments. Carrie Bivens expressed a desire to move NPRR1092 forward to address current market issues.

**Eric Goff moved to recommend approval of NPRR1092 as amended by the 12/6/21 ERCOT comments. Clayton Greer seconded the motion.** Some Market Participants expressed a desire to await additional direction from the Public Utility Commission of Texas (PUCT) prior to modifying the protocols.

**Ian Haley moved to table NPRR1092. Katie Rich seconded the motion. The motion carried via roll call ballot with eight objections from the Consumer (3) (Occidental Chemical, City of Eastland, Residential Consumer), Independent Generator (2) (Jupiter Power, EDP Renewables), Independent Power Marketer (IPM) (Morgan Stanley), and Independent Retail Electric Provider (IREP) (2) (Reliant Energy, Just Energy) Market Segments, and five abstentions from the Independent Generator (Enel Green Power), IPM (Tenaska), Investor Owned Utility (IOU) (AEP), and Municipal (2) (DME, Austin Energy) Market Segments*.*** *(Please see ballot posted with Key Documents.)*

Ms. Henson noted NPRR1092 would be considered at the January 13, 2022 PRS meeting.

*NPRR1097, Create Resource Forced Outage Report*

Market Participants reviewed NPRR1097. Michele Richmond requested additional time to provide clarifications to NPRR1097. ERCOT Staff discussed the need to advance NPRR1097 in consideration of PUCT directives and the implementation timeline, and reviewed the Revision Request timeline and Urgent Status. Ms. Henson stated that NPRR1097 would be considered at the January 13, 2022 PRS meeting.

*NPRR1099, Managing Network Operations Model Resource Nodes*

Market Participants noted the Reliability and Operations Subcommittee (ROS) and Wholesale Market Subcommittee (WMS) endorsements of NPRR1099 as amended by the 11/24/21 ERCOT comments. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

NPRR1102, ERCOT Discretion for Adjusting Non-Interval Data Recorder (NIDR) Backcasted Load Profiles

Randy Roberts summarized NPRR1102. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

*SCR818, Changes to Incorporate GIC Modeling Data into Existing Modeling Applications*

Anthony Johnson summarized SCR818. Mr. Goff noted that further support for SCR818 may be dependent on the cost presented in the forthcoming Impact Analysis. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Review of Revision Request Language (see Key Documents)

*NPRR1110, Black Start Requirements Update*

Isabel Flores summarized NPRR1110. Market Participants requested additional review of a variety of issues by ROS and WMS, including the availability of on-site fuel, whether retrofitting might be necessary, utilizing Black Start Service (BSS) Back-up Fuel during Energy Emergency Alerts (EEAs), and concerns about market power if NPRR1110 significantly limits the number of Resources capable of bidding to provide BSS. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Combined Ballot

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

* **To approve the November 10, 2021 and November 17, 2021 PRS Meeting Minutes as presented**
* **To endorse and forward to TAC the 11/10/21 PRS Report and Impact Analysis for NPRR1095 with a recommended priority of 2023 and rank of 3700**
* **To endorse and forward to TAC the 11/10/21 PRS Report as amended by the 11/29/21 ERCOT comments and the Impact Analysis for NPRR1098 with a recommended priority of 2022 and rank of 2530**
* **To endorse and forward to TAC the 11/10/21 PRS Report and Impact Analysis for SCR816 with a recommended priority of 2022 and rank of 2855**
* **To endorse and forward to TAC the 11/10/21 PRS Report and Impact Analysis for SCR817 with a recommended priority of 2023 and rank of 3700**
* **To recommend approval of NPRR1099 as amended by the 11/24/21 ERCOT comments**
* **To recommend approval of NPRR1102 as submitted**
* **To recommend approval of SCR818 as submitted**
* **To table NPRR1110 and refer the issue to ROS and WMS**

**Bill Barnes seconded the motion. The motion carried unanimously via roll call vote.** *(Please see ballot posted with Key Documents.)*

Other Business

*SCR819, Improving IRR Control to Manage GTC Stability Limits*

*NPRR1111, Related to SCR819, Improving IRR Control to Manage GTC Stability Limits*

**Mr. Greer moved to waive notice to consider SCR819 and NPRR1111. Blake Gross seconded the motion. The motion carried via roll call ballot with one objection from the Independent Generator (Calpine) Market Segment.** *(Please see ballot posted with Key Documents.)*

Market Participants discussed SCR819 and NPRR1111, reviewed the Revision Request timeline for approval on Urgent Status and anticipated implementation, and requested additional review of the issues by ROS and WMS.

**Mr. Greer moved to grant SCR819 and NPRR1111 Urgent status, and to table SCR819 and NPRR1111 and refer the issue to ROS and WMS. John Varnell seconded the motion. The motion carried via roll call ballot with one objection from the Independent Generator (Calpine) Market Segment.** *(Please see ballot posted with Key Documents.)*

Cory Phillips reviewed the Stakeholder process for Revision Requests.

Adjournment

Ms. Henson adjourned the December 14, 2021 PRS meeting at 11:43 a.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <https://www.ercot.com/calendar/event?id=1600799050893> unless otherwise noted [↑](#footnote-ref-1)