**APPROVED**

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

**Webex Only**

**Wednesday, November 10, 2021 – 9:30 a.m.**

Attendance

*Members:*

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Barnes, Bill | Reliant Energy Retail Services |  |
| Blakey, Eric | Just Energy |  |
| Claiborn-Pinto, Shawnee | OPUC |  |
| Coleman, Diana | CPS Energy |  |
| 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 |  |
| Wittmeyer, Bob | Denton Municipal Electric | Alt. Rep. for Smith Day |
|  |  |  |
| *Guests:* |  |  |
| Abbott, Kristin | Austin Energy |  |
| Ainspan, Malcolm | NRG |  |
| Aldridge, Ryan | AB Power Advisors |  |
| Alford, Anthony | CenterPoint Energy |  |
| Anderson, Connor | AB Power Advisors |  |
| Ashley, Kristy | Customized Energy Solutions |  |
| Bailey, Robert | NRG |  |
| Benson, Mariah | PUCT |  |
| Berger, Joel | Customized Energy Solutions |  |
| Berahmand, Amir | Tesla |  |
| Bivens, Carrie | Potomac Economics |  |
| Bombick, Sarah | Lower Colorado River Authority |  |
| Boisseau, Heather | Lower Colorado River Authority |  |
| Bonskowski, Ned | Vistra Energy |  |
| Brandin, Sarah | Plus Power |  |
| Bruce, Mark | Cratylus Advisors |  |
| Bunch, Kevin | EDF Trading |  |
| Burke, Tom | Invenergy |  |
| Camet, Brooke | OPUC |  |
| Campo, Curtis | Garland Power and Light |  |
| Chan, Vanessa | Enel |  |
| Clark, Jack | Next Era Energy |  |
| Cochran, Seth | DC Energy |  |
| Coffee, Jennifer | Texas Pipelines |  |
| Cortez, Sarai | Hunt Utility |  |
| Coultas, Ann | Enel Green Power |  |
| Cripe, Ramsey | Schneider Engineering |  |
| Daigneault, Ralph | Potomac Economics |  |
| Detelich, David | CPS Energy |  |
| Downey, Marty |  |  |
| Dreyfus, Mark | MD Energy Consulting |  |
| Evans, Ryan | Aces Power |  |
| Figuly, Robert | Garland Power and Light |  |
| Ford, Barton | Tenaska Power Services |  |
| Galliguez, Percy | BEPC |  |
| Germanos, Mark | Enel |  |
| Gilfenbaum, Eliah | Tesla |  |
| Goff, Eric | Tesla |  |
| Graham, Sophie | Adapt 2 Solutions |  |
| Harvey, Julia | Texas Electric Cooperatives |  |
| Heino, Shari | Brazos Electric Cooperative |  |
| Helton, Bob | ENGIE |  |
| Hendrix, Chris | Demand Control 2 |  |
| Hinds, David | Lower Colorado River Authority |  |
| Hohenshilt, Jennifer | Talen Energy |  |
| Johnson, Anthony | CenterPoint Energy |  |
| Kee, David | CPS Energy |  |
| Khayat, Maribel | CenterPoint Energy |  |
| Lange, Clif | South Texas Electric Cooperative |  |
| Lasher, Warren | Lasher Energy Consulting |  |
| Layton, Leah | Grid Beyond |  |
| Lee, Billy | Garland Power and Light |  |
| Lee, Jim | AEP TX |  |
| Lopez, Annie | East Point Energy |  |
| Lotter, Eric | Grid Monitor |  |
| Loving, Alicia | Austin Energy |  |
| Loyferman, Larisa | CenterPoint Energy |  |
| Lu, Bo | Broad Reach Power |  |
| Matt, Kevin | NRG |  |
| McKeever, Debbie | Oncor |  |
| Mendoza, Albert | Oxy |  |
| Mercado, David | CenterPoint Energy |  |
| Musher, Danny | Key Capture Energy |  |
| Nashawati, Eithar | Oncor |  |
| Nease, Nelson | Cross Oak Group |  |
| Nguyen, Andy | Lower Colorado River Authority |  |
| Packard, John | STEC |  |
| Petajasoja, Ida | inBalance |  |
| Pyka, Greg | Schneider Engineering |  |
| Rainwater, Kim | Lower Colorado River Authority |  |
| Ramaswamy, Ramya | PUCT |  |
| Reed, Carolyn | CenterPoint Energy |  |
| Reed, Ronald | CenterPoint Energy |  |
| Reedy, Steve | CIM View Consulting |  |
| Reid, Walter | APA |  |
| Reinhart, Patrick | CenterPoint Energy |  |
| Richmond, Michele | TCPA |  |
| Sams, Bryan | Calpine |  |
| Schatz, John | Vistra |  |
| Scott, Kathy | CenterPoint Energy |  |
| Sharma Frank, Arushi | Tesla |  |
| Shumate, Walt |  |  |
| Siddiqi, Shams | Crescent Power Consulting |  |
| Simpson, Lori | Exelon |  |
| Singh Rastogi, Rama | PUCT |  |
| Sithuraj, Murali | Austin Energy |  |
| Slaughter, Jeff | Just Energy |  |
| Smith, Caitlin | Jupiter Power |  |
| Smith, Chase | Southern Power |  |
| Surendran, Resmi | Shell Energy |  |
| Tan, Paul | Sarac Energy |  |
| Thayil, Thomson | PCI |  |
| Thomas, Wayne | BTU |  |
| Townsend, Aaron | Potomac Economics |  |
| Troy, Roy | ACES Power |  |
| Uy, Manny | Hunt Energy |  |
| Velasquez, Ivan | Oncor |  |
| Villasana, Kristi | NBU |  |
| Wall, Perrin | CenterPoint Energy |  |
| White, Lauri | AEP |  |
| Xie, Fei | Austin Energy |  |
| *ERCOT Staff* |  |  |
| Albracht, Brittney |  |  |
| Anderson, Troy |  |  |
| Ayson, Janice |  |  |
| Barati, Camron |  |  |
| Bauld, Mandy |  |  |
| Bernecker, John |  |  |
| Bezzam, Joseph |  |  |
| Bigbee, Nathan |  |  |
| Billo, Jeff |  |  |
| Blevins, Bill |  |  |
| Boren, Ann |  |  |
| Bracy, Phil |  |  |
| Castillo, Leo |  |  |
| Chen, Yong |  |  |
| Clifton, Suzy |  |  |
| Comstock, Read |  |  |
| Day, Betty |  |  |
| Dinopol, Ohlen |  |  |
| Fleming, Lauren |  |  |
| Fohn, Doug |  |  |
| Folks, Matt |  |  |
| Garcia, Freddy |  |  |
| Gonzalez, Ino |  |  |
| Gore, Amy |  |  |
| Hailu, Ted |  |  |
| Hobbs, Kristi |  |  |
| Holt, Blake |  |  |
| House, Donald |  |  |
| Huang, Fred |  |  |
| Jasper, Madeline |  |  |
| Kane, Erika |  |  |
| Kettlewell, Bill |  |  |
| Kezell, David |  |  |
| Lee, Alex |  |  |
| Lofton, Amy |  |  |
| Lowe, William |  |  |
| Maggio, Dave |  |  |
| Mago, Nitika |  |  |
| Matlock, Robert |  |  |
| Maul, Donald |  |  |
| Michelsen, David |  |  |
| Morehead, Juliana |  |  |
| Moreno, Alfredo |  |  |
| Patterson, Mark |  |  |
| Pedigo, Jake |  |  |
| Phillips, Cory |  |  |
| Ragsdale, Kenneth |  |  |
| Rampalli, Seshu |  |  |
| Rickerson, Woody |  |  |
| Rios, Diana |  |  |
| Roberts, Randy |  |  |
| Rosel, Austin |  |  |
| Ruane, Mark |  |  |
| Scheel, Richard |  |  |
| Shanks, Magie |  |  |
| Sharma, Sandip |  |  |
| Shaw, Pamela |  |  |
| Solis, Stephen |  |  |
| Spells, Vanessa |  |  |
| Stice, Clayton |  |  |
| Taylor, Sean |  |  |
| Teixeira, Jay |  |  |
| Thomas, Shane |  |  |
| Thompson, Chad |  |  |
| Tirupati, Venkata |  |  |
| Tucker, Don |  |  |
| Wiley, Leslie |  |  |
| Williams, Leslie |  |  |
| Woodfin, Dan |  |  |
| Troublefield, Jordan |  |  |
| Zapanta, Rizaldy |  |  |
| Zeplin, Rachel |  |  |

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

Martha Henson called the November 10, 2021 PRS meeting to order at 9:30 a.m.

Antitrust Admonition

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

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

*October 14, 2021*

Market Participants reviewed clarifications to the October 14, 2021 PRS Meeting Minutes. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

Technical Advisory Committee (TAC) Update

Ms. Henson noted that TAC had not met since the October 14, 2021 PRS meeting.

Project Update (see Key Documents)

Troy Anderson presented project highlights and reviewed the 2021 and 2022 release targets. Mr. Anderson highlighted in-flight Strategic projects, including Distributed Generation Resource (DGR) and Distribution Energy Storage Resources (DESRs) and noted that the Battery Energy Storage (BES) Combo Model implementation strategies target go-live date is still in development. Mr. Anderson summarized discussion at the November 3, 2021 Wholesale Market Subcommittee (WMS) meeting regarding some Stakeholder requests to delay implementation of the Fast-Frequency Response (FFR) Advancement project and internal discussions on an alternate project delivery that would minimize impacts to other projects. Market Participants and ERCOT Staff discussed enhanced communication and alternate forums to support technical participation and improve project delivery readiness. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects.

Amy Lofton presented highlights of the new navigation and HTTPS protocol for ERCOT.com anticipated to be launched within the window of November 17 through November 20, 2021, noted that a market notice was sent on November 8, 2021, and reviewed the retention policy and content visibility for this release. Some Market Participants expressed concern for the lack of transparency for documentation older than seven years, provided specific examples of the usefulness and value of the information, and requested ERCOT reinstate as much data and information as quickly as possible.

Urgency Vote(s) (see Key Documents)

*Nodal Protocol Revision Request (NPRR) 1101, Create Non-Spin Deployment Groups made up of Generation Resources Providing Off-Line Non-Spinning Reserve and Load Resources that are Not Controllable Load Resources Providing Non-Spinning Reserve*

*NPRR1103, Securitization – PURA Subchapter M Default Charges*

*NPRR1104, As-Built Definition of Real Time Liability Extrapolated (RTLE)*

ERCOT Staff and Market Participants discussed Urgent status for NPRRs 1101, 1103, and 1104.

**Bob Helton moved to grant NPRR1101, NPRR1103 and NPRR1104 Urgent Status. Clayton Greer**

**seconded the motion. The motion carried via roll call ballot with one abstention from the Independent Generator (Luminant) Market Segment.** *(Please see ballot posted with Key Documents.)*

Sandip Sharma summarized NPRR1101 and discussion at the October 19, 2021 Non-Spinning Reserve (Non-Spin) Service Workshop. Market Participants reviewed the Impact Analysis and appropriate priority and rank for NPRR1101.

**Mr. Greer moved to recommend approval of NPRR1101 as submitted; and to forward to TAC NPRR1101 and the Impact Analysis with a recommended priority of 2022 and rank of 3195. Ian Haley seconded the motion. The motion carried via roll call ballot with one abstention from the Consumer (Occidental Chemical) Market Segment.** *(Please see ballot posted with Key Documents.)*

Mark Ruane summarized NPRR1103 and discussion at the November 3, 2021 WMS meeting, provided an update on securitization issues, and reviewed the implementation timeline. Sarah Bombick summarized the 11/5/21 LCRA comments. Mr. Ruane noted ERCOT’s desire for consistency in collateral requirements. Market Participants offered clarifications to maintain the second Business Day due date within Section 26.5.5, Monitoring of a Counter-Party’s Securitization Default Charge Credit Exposure by ERCOT. Market Participants reviewed the Impact Analysis, Business case and appropriate priority and rank for NPRR1103.

**Mr. Haley moved to recommend approval of NPRR1103 as amended by the 11/5/21 LCRA comments as revised by PRS and to forward to TAC NPRR1103 and the Impact Analysis with a recommended priority of 2021 and rank of 320. Mr. Greer seconded the motion. The motion carried via roll call ballot with one abstention from the Municipal (CPS Energy) Market Segment.** *(Please see ballot posted with Key Documents.)*

Vanessa Spells summarized NPRR1104. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1105, Option to Deploy Distribution Voltage Reduction Measures Prior to Energy Emergency Alert (EEA) (Waive Notice)*

*NPRR1106, Deployment of Emergency Response Service (ERS) Prior to Declaration of Energy Emergency Alert (EEA) (Waive Notice – Possible Vote)*

*NPRR1107, Addition of Weatherization Inspection Fees to the ERCOT Fee Schedule and Clarification of Generation Interconnection Request Fees (Waive Notice)*

*NPRR1108, ERCOT Shall Approve or Deny All Resource Outage Requests (Waive Notice)*

*NPRR1109, Process for Reinstating Decommissioned Generation Resources (Waive Notice)*

Ms. Henson noted that due to the filing date of NPRRs 1105, 1106, 1107, 1108, and 1109, a successful motion to waive notice would be required for PRS to take action on these items. Market Participants expressed support to grant the request to waive notice on these Revision Requests. ERCOT Staff and Market Participants discussed Urgent status for NPRRs 1105, 1106, 1107, 1108, and 1109.

**Tom Burke moved to waive notice for NPRRs 1105, 1106, 1107, 1108, and 1109 and to grant NPRRs 1106, 1106, 1107, 1108, and 1109 Urgent Status. Mr. Helton seconded the motion. The motion carried via roll call ballot with two objections from the Independent Generator (Luminant) and Municipal (Denton) Market Segments and seven abstentions from the Consumer (2) (OPUC, Occidental Chemical), Independent Generator (Jupiter Power), Independent Power Marketer (IPM) (3) (DC Energy, Morgan Stanley, Tenaska), and Municipal (Austin Energy) Market Segments.** *(Please see ballot posted with Key Documents.)*

Dan Woodfin summarized NPRR1105. Clif Lange reviewed the 11/8/21 STEC comments. Michele Richmond reviewed the 11/10/21 TCPA comments. Some Market Participants expressed concern that the proposed language creates market distortions, additional voltage issues, and the potential for equipment damage. ERCOT Staff noted that requests for information are being sent to update ERCOT’s understanding of Transmission and/or Distribution Service Providers (TDSPs) capabilities, and expressed support for the additional language proposed in the 11/8/21 STEC and 11/10/21 TCPA comments. ERCOT Staff noted the Revised Impact Analysis will be considered at TAC.

**Mr. Haley moved to recommend approval of NPRR1105 as amended by the 11/10/21 TCPA comments, and to forward to TAC NPRR1105 and the Impact Analysis. Mr. Helton seconded the motion. The motion carried via roll call ballot with one objection from the Consumer (Occidental Chemical) Market Segment, and six abstentions from the Consumer (OPUC), Cooperative (LCRA), IPM (Morgan Stanley), and Municipal (3) (Denton, Austin Energy, CPS Energy) Market Segments.** *(Please see ballot posted with Key Documents.)*

Mr. Sharma summarized NPRR1106.

**Mr. Helton moved to recommend approval of NPRR1106 as submitted, and to forward to TAC NPRR1106 and the Impact Analysis. Bill Barnes seconded the motion. The motion carried via roll call ballot with one objection from the IPM (Morgan Stanley) Market Segment and one abstention from the Municipal (Austin Energy) Market Segment.** *(Please see ballot posted with Key Documents.)*

Doug Fohn summarized NPRR1107. David Kezell presented the proposed 2021 new user fees for weatherization efforts, weatherization inspection plan, and cost basis methodology. Some Market Participants requested clarification as to how the Weatherization Inspection fee will be applied towards various Resource types and sites that contain multiple Resources. Some Market Participants also expressed concern regarding the fee’s cost and interest rate and proposed paying ERCOT directly for inspections as opposed to via cost-raising, third-party vendors. Market Participants offered clarifications to NPRR1107.

Mr. Greer moved to recommend approval of NPRR1107 as revised by PRS, and to forward to TAC NPRR1107 and the Impact Analysis; the motion failed for lack of a second. In consideration of the 2021 Generation Entity Winter Weather Preparedness Workshop, Market Participants requested PRS table NPRR1107 for further discussion at an additional November 2021 PRS meeting, and requested that ERCOT provide additional, clarifying materials at the meeting.

Bill Blevins summarized NPRR1109. Some Market Participants expressed concern that NPRR1109 unnecessarily revises ERCOT’s test and study processes and poses safety and reliability risks and market impacts, and suggested that a good cause exception for one unit would be more appropriate than an NPRR, as it would achieve the goal of additional MWs available for the 2021-2022 winter Peak Load Season without altering the established process and risking unintended consequences. In consideration of the 2021 Generation Entity Winter Weather Preparedness Workshop, Market Participants also requested PRS table NPRR1109 for further discussion at an additional November 2021 PRS meeting.

**Mr. Burke moved to table NPRR1107 and NPRR1109. Diana Coleman seconded the motion. The motion carried unanimously via roll call vote.** *(Please see ballot posted with Key Documents.)*

Mr. Woodfin summarized NPR1108 and requested PRS table it and refer the issue to WMS. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

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

*NPRR1077, Extension of Self-Limiting Facility Concept to Settlement Only Generators (SOGs) and Telemetry Requirements for SOGs*

Market Participants discussed the Revised Impact Analysis and appropriate priority and rank for NPRR1077. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*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 11/3/21 ERCOT comments to NPRR1095 and SCR817. 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 noted the 11/1/21 Oncor comments and that Nodal Operating Guide Revision Request (NOGRR) 234, Related to NPRR1098, Direct Current Tie (DC Tie) Reactive Power Capability Requirements and Planning Guide Revision Request (PGRR) 097, Related to NPRR1098, Direct Current Tie (DC Tie) Reactive Power Capability Requirements would be considered at the December 2, 2021 Reliability Operations Subcommittee (ROS) Meeting. 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 11/8/21 ERCOT comments to 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*

*NPRR1092, Remove RUC Offer Floor*

*NPRR1096, Require Sustained Six Hour Capability for ECRS and Non-Spin*

*NPRR1097, Create Resource Forced Outage Report*

*NPRR1099, Managing Network Operations Model Resource Nodes*

PRS took no action on these items.

*NPRR1091, Changes to Address Market Impacts of Additional Non-Spin Procurement*

Market Participants reviewed NPRR1091, the 11/8/21 WMS comments and the 11/9/21 Shell comments. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

Review of Revision Request Language (see Key Documents)

*NPRR1100, Emergency Switching Solutions for Energy Storage Resources*

Arushi Sharma Frank summarized NPRR1100, discussion at the October 26, 2021 NPRR1100 Workshop, and the 11/3/21 Tesla comments, and requested review of the issues at the ROS and WMS. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1101, Create Non-Spin Deployment Groups made up of Generation Resources Providing Off-Line Non-Spinning Reserve and Load Resources that are Not Controllable Load Resources Providing Non-Spinning Reserve*

This item was considered under Urgent status.

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

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*

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 October 14, 2021 PRS Meeting Minutes as revised by PRS**
* **To recommend approval of NPRR1104 as submitted and to forward to TAC NPRR1104 and the Impact Analysis**
* **To table NPRR1108 and refer the issue to WMS**
* **To table SCR816**
* **To table NPRR1095**
* **To table SCR817**
* **To grant NPRR1091 Urgent status; to recommend approval of NPRR1091 as amended by the 11/8/21 WMS comments; and to forward to TAC NPRR1091**
* **To endorse and forward to TAC the 10/14/21 PRS Report and Revised Impact Analysis for NPRR1077 with a recommended priority of 2022 and rank of 3550**
* **To table NPRR1098**
* **To table NPRR1100 and refer the issue to ROS and WMS**
* **To table NPRR1102**
* **To table SCR818**

**John Varnell seconded the motion. The motion carried with one abstention from the Consumer (Occidental Chemical) Market Segment.** *(Please see ballot posted with Key Documents.)*

Other Business

Market Participants and ERCOT Staff reviewed the ERCOT meeting calendar for consideration of an additional November PRS meeting. TAC Leadership offered to reschedule the November 17, 2021 TAC meeting, with a date in November to be determined. Ms. Henson confirmed the November 17, 2021 PRS meeting.

Bill Blevins recognized the years of service and contributions John Dumas made in the ERCOT market, noted his impact on colleagues and friends, and shared visitation and funeral details.

Adjournment

Ms. Henson adjourned the November 10, 2021 PRS meeting at 2:58 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <https://www.ercot.com/calendar/event?id=1600799022030> unless otherwise noted [↑](#footnote-ref-1)