**APPROVED Minutes**

**Protocol Revision Subcommittee (PRS) Meeting**

**ERCOT Austin – 7620 Metro Center Drive – Austin, Texas 78744**

**Thursday, March 8, 2018 – 9:30 a.m.**

Attendance

*Members:*

|  |  |  |
| --- | --- | --- |
| Burke, Tom | Golden Spread Electric Cooperative |  |
| Coleman, Diana | OPUC |  |
| Day, Smith | Denton Municipal Electric |  |
| Detelich, David | CPS Energy |  |
| Gibson, C. | Discount Power |  |
| Greer, Clayton | Morgan Stanley |  |
| Gross, Blake | AEP Service |  |
| Haley, Ian | Luminant Generation | Alt. Rep. for D. Ricketts |
| Heino, Shari | Brazos Electric Power Cooperative |  |
| Henson, Martha | Oncor |  |
| Sams, Bryan | Reliant Energy Retail Services |  |
| Stanfield, Leonard | Invenergy Energy Management |  |
| Trevino, Melissa | Occidental Chemical |  |
| Varnell, John | Tenaska Power Services |  |

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| --- | --- | --- | --- | --- |
| *Guests:* | |  | |  |
| Abbott, Kristin | | PUCT | | Via Teleconference |
| Ainspan, Malcolm | | NRG | | Via Teleconference |
| Barnes, Bill | | Reliant Energy Retail Services | |  |
| Blakey, Eric | | Just Energy | | Via Teleconference |
| Bruce, Mark | | Cratylus Advisors | |  |
| Bryant, Mark | | PUCT | | Via Teleconference |
| Bunch, Kevin | | EDF Trading | | Via Teleconference |
| Cobos, Lori | | Sharyland Utilities | |  |
| Cochran, Seth | | DC Energy | |  |
| Coon, Patrick | | MERIT SI | |  |
| Downey, Marty | | Electranet Power | |  |
| English, Barksdale | | Austin Energy | | Via Teleconference |
| Flowers, BJ | | Sharyland | | Via Teleconference |
| Goff, Eric | | Citigroup Energy | |  |
| Hithersay, Brian | | Brazos Electric Cooperative | | Via Teleconference |
| Jacobs, Kaci | | TXU | | Via Teleconference |
| Jewell, Caitlin | | Jewell and Associates | | Via Teleconference |
| Johnson, David | | IVG | | Via Teleconference |
| Kee, David | | CPS Energy | |  |
| Lange, Clif | | South Texas Electric Cooperative | | Via Teleconference |
| Lee, Jim | | AEPSC | |  |
| Luis, Lugo | | Shell Energy | | Via Teleconference |
| McKeever, Debbie | | Oncor | |  |
| Mueller, Paula | | Texas Reliability Entity | | Via Teleconference |
| Patel, Shreenath | | Vistra Energy | | Via Teleconference |
| Peters, Patrick | | CenterPoint Energy | |  |
| Ravulapati, Bharath | | Cross Texas Transmission | | Via Teleconference |
| Reed, Cyrus | | Sierra Club | |  |
| Rehfeldt, Diana | | Texas New Mexico Power | | Via Teleconference |
| Reid, Walter | | Wind Coalition | | Via Teleconference |
| Robertson, Jennifer | | LCRA | |  |
| Sandidge, Clint | | Calpine | |  |
| Scott, Kathy | | CenterPoint Energy | |  |
| Shaw, Marka | | Exelon | |  |
| Siddiqi, Shams | | Crescent Power | | Via Teleconference |
| Sithuraj, Murali | | Austin Energy | |  |
| Smith, Caitlin | | Jewell and Associates | |  |
| Surendran, Resmi | | Shell Energy | | Via Teleconference |
| Thompson, David | | Pedernales Electric Cooperative | |  |
| True, Roy | | Aces Power | | Via Teleconference |
| Turner, Lucas | | South Texas Electric Cooperative | |  |
| Whitworth, Doug | | Texas Reliability Entity | | Via Teleconference |
| Wittmeyer, Bob | | Denton Municipal Electric | |  |
| Zerwas, Rebecca | | NRG | |  |
|  |  | |  | |
| *ERCOT Staff* |  | |  | |
| Albracht, Brittney |  | |  | |
| Anderson, Troy |  | |  | |
| Billo, Jeff |  | |  | |
| Bivens, Carrie |  | |  | |
| Boren, Ann |  | |  | |
| Boswell, Bill |  | | Via Teleconference | |
| Bracy, Phil | |  | |  |
| Butterfield, Lindsay | |  | |  |
| Castillo, Leo | |  | | Via Teleconference |
| Chang, Sean | |  | | Via Teleconference |
| Clifton, Suzy | |  | |  |
| Day, Betty | |  | | Via Teleconference |
| Fohn, Douglas | |  | | Via Teleconference |
| Fleming, Lauren | |  | | Via Teleconference |
| Gonzalez, Ino | |  | |  |
| Guo, Jack | |  | | Via Teleconference |
| Hailu, Ted | |  | |  |
| Hanson, Kevin | |  | | Via Teleconference |
| Hobbs, Kristi | |  | |  |
| Hui, Hailong | |  | | Via Teleconference |
| Krein, Steve | |  | | Via Teleconference |
| Landry, Kelly | |  | |  |
| Levine, Jon | |  | | Via Teleconference |
| Maggio, Dave | |  | |  |
| Matlock, Robert | |  | | Via Teleconference |
| Mereness, Matt | |  | | Via Teleconference |
| Mickey, Joel | |  | |  |
| Moorty, Sai | |  | | Via Teleconference |
| Moreno, Alfredo | |  | | Via Teleconference |
| Phillips, Cory | |  | |  |
| Rickerson, Woody | |  | |  |
| Roberts, Randy | |  | | Via Teleconference |
| Schroeder, Gina | |  | | Via Teleconference |
| Shaw, Pam | |  | |  |
| Simons, Diane | |  | | Via Teleconference |
| Smith, Nathan | |  | | Via Teleconference |
| Solis, Stephen | |  | | Via Teleconference |
| Stice, Clayton | |  | |  |
| Taurozzi, Tina | |  | |  |
| Teixeira, Jay | |  | | Via Teleconference |
| Zeplin, Rachel | |  | |  |

*Unless otherwise indicated, all Market Segments were present for a vote.*

Martha Henson called the March 8, 2018 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)

*February 8, 2018*

**Blake Gross moved to approve the February 8, 2018 meeting minutes as submitted. Diana Coleman seconded the motion. The motion carried unanimously.**

Technical Advisory Committee (TAC) and Board Report

Ms. Henson noted the disposition of Revision Requests considered at the February 22, 2018 TAC and February 20, 2018 ERCOT Board meetings.

Project Update and Summary of Project Priority List (PPL) Activity to Date (see Key Documents)

Troy Anderson provided a project update and summary of PPL activity and reviewed the 2018 release targets and project spending. Mr. Anderson reviewed Section 21.4.6, Revision Request Impact Analysis, and presented recommendations for improvements to the Impact Analysis template. Market Participants discussed the recommendations and requested ERCOT begin using the new template. Mr. Anderson presented the results of ERCOT’s annual review of Impact Analysis Results, and highlighted variances from project costs and duration ranges. Mr. Anderson provided Market Participants a summary of the effort ERCOT expended to complete an Impact Analysis by project cost estimate.

Annual Review of Other Binding Document List

Ms. Henson reminded Market Participants of the PRS annual obligation to review the list of Other Binding Documents and presented the current list of Other Binding Documents. Market Participants discussed the list, transparency of change control for Other Binding Documents, and agreed that PRS should review the various approval processes for Other Binding Documents at a later meeting.

**Tom Burke moved to recommend approval of the current list of Other Binding Documents. C. Gibson seconded the motion. The motion carried unanimously.**

Urgency Vote

*Nodal Protocol Revision Request (NPRR) 868, As-Built Hub and Load Zone Calculation*

**Clayton Greer moved to grant NPRR868 Urgent status. Mr. Burke seconded the motion. The motion carried unanimously.**

**Mr. Greer moved to recommend approval of NPRR868 as submitted, and to forward NPRR853 and the Impact Analysis to TAC. Ian Haley seconded the motion. The motion carried unanimously.**

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

*NPRR853, Availability of ERCOT Estimated Interval Meter Data*

Rebecca Zerwas stated that during the Impact Analysis process ERCOT identified a more cost effective solution to NPRR853 and requested additional time for the Retail Market Subcommittee (RMS) to review.

**Mr. Greer moved to table NPRR853. Bryan Sams seconded the motion. The motion carried unanimously.**

*NPRR858, Provide Complete Current Operating Plan (COP) Data*

Market Participants and ERCOT Staff discussed the Impact Analysis and appropriate priority and rank for NPRR858.

**Mr. Greer moved to endorse and forward to TAC the 2/8/18 PRS Report and the Impact Analysis for NPRR858 with a recommended priority of 2018 and rank of 2170. Mr. Burke seconded the motion. The motion carried unanimously.**

*NPRR864, RUC Modifications to Consider Market-Based Solutions*

Market Participants and ERCOT Staff discussed the Impact Analysis for NPRR864 and the 3/1/18 ERCOT comments. In response to Market Participant questions on the implementation timeline, Mr. Anderson stated that NPRR864 aligns with additional Market Management Systems (MMS) projects, however, there is a significant vendor component and stated that September 2018 is the earliest anticipated implementation date. Market Participants debated the cost benefit of implementing NPRR864 after summer 2018. Market Participants offered revisions to NPRR864 and further clarified the Business Case.

**Mr. Sams moved to endorse and forward to TAC the 2/8/18 PRS Report as amended by the 3/1/18 ERCOT comments and as revised by PRS and the Impact Analysis for NPRR864 with a recommended priority of 2018 and a rank of 2075. Marka Shaw seconded the motion. The motion carried unanimously.**

*NPRR865, Publish RTM Shift Factors for Hubs, Load Zones, and DC Ties*

Market Participants and ERCOT Staff discussed the Impact Analysis and appropriate priority and rank for NPRR865.

**Mr. Greer moved to endorse and forward to TAC the 2/8/18 PRS Report and the Impact Analysis for NPRR865 with a recommended priority of 2018 and rank of 2180. Mr. Haley seconded the motion. The motion carried unanimously.**

*SCR793, SSR Related Telemetry for Transmission Service Provider (TSP) Operators*

Market Participants and ERCOT Staff discussed the Impact Analysis and appropriate priority and rank for System Change Request (SCR) 793.

**Mr. Greer moved to endorse and forward to TAC the 2/8/18 PRS Report and the Impact Analysis for SCR793 with a recommended priority of 2018 and rank of 2190. Mr. Gross seconded the motion. The motion carried unanimously.**

*SCR795, Addition of Intra-Hour Wind Forecast to GTBD Calculation*

Market Participants and ERCOT Staff discussed the Impact Analysis and appropriate priority and rank for SCR795.

**Mr. Greer moved to endorse and forward to TAC the 2/8/18 PRS Report and the Impact Analysis for SCR795 with a recommended priority of 2018 and rank of 2200. Mr. Burke seconded the motion. The motion carried unanimously.**

Revision Requests Tabled at PRS (see Key Documents)

*NPRR807, Day-Ahead Market Price Correction*

*NPRR823, Amend the Definition of an Affiliate*

*NPRR826, Mitigated Offer Caps for RMR Resources*

*NPRR838, Updated O&M Cost for RMR Resources*

*NPRR845, RMR Process and Agreement Revisions*

*NPRR848, Separate Clearing Prices for RRS*

*NPRR849, Clarification of the Range of Voltage Set Points at a Generation Resource’s POI*

*NPRR850, Market Suspension and Restart*

*NPRR851, Procedure for Managing Disconnections for Bidirectional Electrical Connections at Transmission Level Voltages*

*NPRR856, Treatment of OFFQS Status in Day-Ahead Make Whole and RUC Settlements*

*NPRR862, Updates to Address Revisions under PUCT Project 46369*

*NPRR863, Creation of Primary Frequency Response Service Product and Revisions to Responsive Reserve*

PRS took no action on these items.

*NPRR832, Disallow PTP Obligation Bids and DAM Energy Bids that Sink at Private Use Network Settlement Points Without a Load Distribution Factor - URGENT*

Market Participants and ERCOT Staff discussed the timeline of NPRR832 and the anticipated review of performance results associated with NPRR831, Inclusion of Private Use Networks in Load Zone Price Calculations, at a future Qualified Scheduling Entities (QSE) Managers Working Group (QMWG) meeting. PRS took no action on this item.

*NPRR837, Regional Planning Group (RPG) Process Reform*

**Jennifer Robertson moved to recommend approval of NPRR837 as amended by the 2/16/18 ERCOT comments. Mr. Gross seconded the motion. The motion carried unanimously.**

*NPRR847, Exceptional Fuel Cost Included in the Mitigated Offer Cap*

**Mr. Greer moved to recommend approval of NPRR847 as amended by the 1/30/18 ERCOT comments. Mr. Haley seconded the motion. The motion carried unanimously.**

*NPRR857, Creation of Direct Current Tie Operator Market Participant Role*

Market Participants discussed the merits of NPRR857 and the 3/5/18 Sharyland comments.

**Mr. Gross moved to recommend approval of NPRR857 as amended by the 3/5/18 Sharyland comments. Mr. Greer seconded the motion. The motion carried unanimously.**

Review of Revision Request Language (see Key Documents)

*NPRR866, Mapping Registered Distributed Generation and Load Resources to Transmission Loads in the Network Operations Model*

Market Participants discussed the merits of NPRR866. Some Market Participants expressed a concern for potential pricing impacts. Market Participants requested additional review by the Reliability and Operations Subcommittee (ROS) and Wholesale Market Subcommittee (WMS).

**Mr. Burke moved to table NPRR866 and refer the issue to ROS and WMS. John Varnell seconded the motion. The motion carried unanimously.**

Resource Definition Task Force (RTF)

Clayton Stice encouraged Market Participants to attend the March 14, 2018 RTF webinar for an update on RTF activities including an initial framework for identifying Resource types.

Other Business

There was no other business.

Adjournment

Ms. Henson adjourned the March 8, 2018 PRS meeting at 11:01 a.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <http://www.ercot.com/calendar/2018/3/8/138484-PRS> unless otherwise noted [↑](#footnote-ref-1)