**APPROVED Minutes**

**Protocol Revision Subcommittee (PRS) Meeting**

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

**Thursday, September 13, 2018 – 9:30 a.m.**

Attendance

*Members:*

|  |  |  |
| --- | --- | --- |
| Burke, Tom | Golden Spread Electric Cooperative |  |
| Coleman, Diana | OPUC |  |
| Detelich, David | CPS Energy |  |
| Greer, Clayton | Morgan Stanley |  |
| Gross, Blake | AEP Service Corporation |  |
| 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 |  |
| Wittmeyer, Bob | Denton Municipal Electric | Alt. Rep. for S. Day |

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| --- | --- | --- | --- | --- |
| *Guests:* | |  | |  |
| Abbott, Kristin | | PUCT | | Via Teleconference |
| Ainspan, Malcolm | | NRG | | Via Teleconference |
| Ashley, Kristy | | Customized Energy Solution | | Via Teleconference |
| Barnes, Bill | | NRG | | Via Teleconference |
| Bartel, Walter | | CenterPoint Energy | | Via Teleconference |
| Blakely, Eric | | Just Energy | |  |
| Boisseau, Heather | | LCRA | | Via Teleconference |
| Bryant, Mark | | PUCT | | Via Teleconference |
| Checkley, Jim | | Cross Texas Transmission | |  |
| Coleman, Katie | | TIEC | |  |
| Cortez, Sarai | | Sharyland Utilities | |  |
| Cripe, Ramsey | | Schneider Engineering | | Via Teleconference |
| Daigneault, Ralph | | Potomac Economics | |  |
| Downey, Marty | | Electranet Power | |  |
| Eckhoff, Christina | | Texas Reliability Entity | | Via Teleconference |
| Emery, Keith | | Tenaska Power Services | |  |
| Harvey, Julia | | Texas Electric Cooperatives | |  |
| Helton, Bob | | ENGIE Resources | |  |
| Johnson, Anthony | | CenterPoint Energy | | Via Teleconference |
| Jones, Liz | | Oncor | |  |
| Jones, Randy | | Mountaineer | | Via Teleconference |
| Juricek, Michael | | Oncor | | Via Teleconference |
| Kee, David | | CPS Energy | |  |
| Lange, Clif | | South Texas Electric Cooperative | | Via Teleconference |
| Morris, Sandy | | Direct Energy | |  |
| Paff, Tom | | Duke Energy | | Via Teleconference |
| Powell, Christian | | Pedernales Electric Cooperative | |  |
| Reed, Carolyn | | CenterPoint Energy | |  |
| Reed, Cyrus | | Sierra Club | |  |
| Reid, Walter | | Wind Coalition | | Via Teleconference |
| Ritch, John | | NextEra Energy | | Via Teleconference |
| Robertson, Jennifer | | LCRA | |  |
| Scott, Kathy | | CenterPoint Energy | |  |
| Schatz, John | | Luminant Generation LLC | | Via Teleconference |
| Siddiqi, Shams | | Crescent Power | |  |
| Sithuraj, Murali | | Austin Energy | |  |
| Smith, Caitlin | | Invenergy | | Via Teleconference |
| True, Roy | | Aces Power | | Via Teleconference |
| Turner, Lucas | | South Texas Electric Cooperative | |  |
| Van Arkel, Matt | Wind Energy Transmission Texas | |  | |
| Velasquez, Ivan | Oncor | |  | |
| Whittle, Brandon | Calpine | |  | |
| Whitworth, Doug | Texas Reliability Entity | | Via Teleconference | |
| Zake, Diane | Lone Star Transmission | |  | |
|  |  | |  | |
| *ERCOT Staff* |  | |  | |
| Albracht, Brittney |  | |  | |
| Anderson, Connor |  | | Via Teleconference | |
| Anderson, Troy |  | |  | |
| Bernecker, John |  | | Via Teleconference | |
| Billo, Jeff |  | |  | |
| Blevins, Bill |  | |  | |
| Boren, Ann |  | |  | |
| Bracy, Phil | |  | |  |
| Butterfield, Lindsay | |  | |  |
| Castillo, Leo | |  | | Via Teleconference |
| Clifton, Suzy | |  | |  |
| Day, Betty | |  | | Via Teleconference |
| Fohn, Douglas | |  | | Via Teleconference |
| Garcia, Freddy | |  | |  |
| Gonzalez, Ino | |  | |  |
| Hilliard, Marie | |  | | Via Teleconference |
| Hull, Gibson | |  | | Via Teleconference |
| Jin, Julie | |  | | Via Teleconference |
| Kane, Erika | |  | | Via Teleconference |
| Lasher, Warren | |  | |  |
| Maggio, Dave | |  | |  |
| Morehead, Juliana | |  | | Via Teleconference |
| Moreno, Alfredo | |  | | Via Teleconference |
| Opheim, Calvin | |  | | Via Teleconference |
| Phillips, Cory | |  | |  |
| Roberts, Randy | |  | | Via Teleconference |
| Rosel, Austin | |  | |  |
| Ruane, Mark | |  | |  |
| Shaw, Pam | |  | | Via Teleconference |
| Solis, Stephen | |  | | Via Teleconference |
| Stice, Clayton | |  | |  |
| Taurozzi, Tina | |  | |  |
| Thomas, Shane | |  | | Via Teleconference |
| Warnken, Pete | |  | | Via Teleconference |
| Zeplin, Rachel | |  | |  |

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

Martha Henson called the September 13, 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)

*August 16, 2018*

**Tom Burke moved to approve the August 16, 2018 meeting minutes as submitted. Blake Gross seconded the motion. The motion carried unanimously.**

Technical Advisory Committee (TAC) and Board Report

Ms. Henson reminded Market Participants that TAC did not meet in August 2018.

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. In response to Market Participant questions on the implementation timeline for Nodal Protocol Revision Request (NPRR) 821, Elimination of the CRR Deration Process for Resource Node to Hub or Load Zone CRRs, Mr. Anderson stated that it is anticipated to be started late this year, with implementation after July 1, 2019. Mr. Anderson summarized the phased delivery approach for NPRR825, Require ERCOT to Declare an Emergency Condition Prior to Curtailing any DC Tie Load. Mr. Anderson reviewed the Aging Items Report and noted that implementation options for NPRR664, Fuel Index Price for Resource Definition and Real-Time Make-Whole Payments for Exceptional Fuel Cost Events, are being considered by the Wholesale Market Subcommittee (WMS).

Review PRS Reports, Impact Analyses, and Prioritization

*NPRR850, Market Suspension and Restart*

Market Participants reviewed the Impact Analysis for NPRR850. Jennifer Robertson summarized the 9/10/18 LCRA comments and requested time to review the additional Settlement formulas. Market Participants that opposed the requirement for the ERCOT Board approval prior to a Market Restart stated that it would cause additional delays. Some Market Participants expressed concern for the proposed clarifications to the method of allocating costs of a Market Restart to the market, and requested further review of the issue by WMS.

**Ms. Robertson moved to table NPRR850 and refer the issue to WMS. Mr. Burke seconded the motion. The motion carried with two objections from the Independent Generator (Luminant) and Municipal (DME) Market Segments.**

*NPRR869, Clarification of Language Related to Generation Netting for ERCOT-Polled Settlement Meters*

**Bryan Sams moved to endorse and forward to TAC the 8/16/18 PRS Report and Impact Analysis for NPRR869. Melissa Trevino seconded the motion. The motion carried unanimously**

*NPRR880, Publish Real-Time Market Shift Factors for Private Use Network Settlement Points*

Market Participants discussed the Impact Analysis and appropriate priority and rank for NPRR880 and expressed support for the ERCOT request to implement NPRR880 with NPRR865, Publish RTM Shift Factors for Hubs, Load Zones, and DC Ties, to maximize efficiencies.

**Clayton Greer moved to endorse and forward to TAC the 8/16/18 PRS Report and Impact Analysis for NPRR880 with a recommended priority of 2018 and rank of 2300. Bob Helton seconded the motion. The motion carried with one abstention from the Consumer (Occidental Chemical) Market Segment.**

*NPRR883, Adjustment to Settlement Equation for Ancillary Services Assignment*

**Mr. Greer moved to endorse and forward to TAC the 8/16/18 PRS Report and Impact Analysis for NPRR883. Mr. Sams seconded the motion. The motion carried unanimously.**

*NPRR888, 4-Coincident Peak Adjustment Methodology*

**Mr. Greer moved to endorse and forward to TAC the 8/16/18 PRS Report and Impact Analysis for NPRR888. Mr. Helton seconded the motion. The motion carried unanimously.**

*NPRR889, RTF-1 Replace Non-Modeled Generator with Settlement Only Generator*

Market Participants reviewed the Impact Analysis for NPRR889 and the 9/10/18 Luminant comments.

**Bob Wittmeyer moved to endorse and forward to TAC the 8/16/18 PRS Report as amended by the 9/10/18 Luminant comments and the Impact Analysis for NPRR889. Mr. Helton seconded the motion. The motion carried unanimously.**

Revision Requests Tabled at PRS (see Key Documents)

*NPRR823, Amend the Definition of an Affiliate*

*NPRR826, Mitigated Offer Caps for RMR Resources*

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

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

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

*NPRR872, Modifying the SASM Shadow Price Cap*

*NPRR882, Related to PGRR067, Re-powering Procedures*

*NPRR884, Adjustments to Pricing and Settlement for Reliability Unit Commitments (RUCs) of On-Line Combined Cycle Generation Resources*

*NPRR885, Must-Run Alternative (MRA) Details and Revisions Resulting from PUCT Project No. 46369, Rulemaking Relating to Reliability Must-Run Service*

*NPRR886, Agreements Between ERCOT and Other ISOs, RCs, and/or RTOs*

PRS took no action on these items.

*NPRR871, Customer or Resource Entity Funded Transmission Projects Review Process*

Market Participants discussed the merits of NPRR871. Some Market Participants expressed concern for cost causation and allocation for discretionary projects and proposed clarifications to include striking the word “capital” from Section 3.11.4.11, Customer or Resource Entity Funded Transmission Projects.

**Mr. Sams moved to recommend approval of NPRR871 as amended by the 9/5/18 Sharyland comments as revised by PRS. Mr. Greer seconded the motion.** Ian Haley summarized discussions at the Congestion Management Working Group (CMWG) and offered to take a deeper dive if Market Participants supported clarifications to the cost allocation. Market Participants debated the issues and requested further review of the issue by the ROS and WMS.

**Mr. Gross moved to table NPRR871 and refer the issue to ROS and WMS. Mr. Haley seconded the motion. The motion carried unanimously.**

*NPRR879, SCED Base Point and Performance Evaluation Changes for IRRs that Carry Ancillary Services*

Market Participants reviewed the merits of NPRR879 and offered organizational clarifications.

**Mr. Burke moved to recommend approval of NPRR879 as amended by the 8/3/18 ERCOT comments as revised by PRS. Mr. Greer seconded the motion. The motion carried unanimously.**

*NPRR881, Annual Validation Process Revisions*

**Mr. Gross moved to recommend approval of NPRR881 as submitted. Mr. Sams seconded the motion. The motion carried unanimously.**

*NPRR887, Monthly Posting of Default Uplift Exposure Information*

**Mr. Sams moved to recommend approval of NPRR887 as amended by the 9/5/18 ERCOT comments. Mr. Burke seconded the motion. The motion carried unanimously.**

Review of Revision Request Language (see Key Documents)

*NPRR891, Removal of NOIE Capacity Reporting Threshold for the Unregistered Distributed Generation Report*

Pete Warnken summarized the reporting requirements in NPRR891. Market Participants expressed a concern for duplicative data reporting efforts and requested additional review by ROS and WMS.

**Mr. Sams moved to table NPRR891 and refer the issue to ROS and WMS. Mr. Greer seconded the motion. The motion carried unanimously.**

*NPRR892, Non-Spin Reserve Energy Floor Clarification*

Mr. Greer reviewed NPRR892 and stated that the intent is to ensure Ancillary Service products, including Non-Spinning Reserve (Non-Spin), Responsive Reserve (RRS), and Regulation Up Service (Reg-Up), are priced above the floor price of $75/Megawatt Hour (MWh). Market Participants and ERCOT Staff discussed the potential issues including an increase in volume for Resources at the minimum threshold and impacts to Non-Frequency Responsive Capacity (NFRC).

**Mr. Haley moved to table NPRR892 for one month. Sandy Morris seconded the motion. The motion carried unanimously.**

*NPRR893, Clarification of Fuel Index Price and Incorporation of System-Wide Offer Cap and Scarcity Pricing Mechanism Methodology into Protocols*

**Mr. Sams moved to table NPRR893 and refer the issue to WMS. Mr. Haley seconded the motion. The motion carried unanimously.**

*NPRR894, Correction of Unaccounted For Energy (UFE) Formula*

**Mr. Sams moved to recommend approval of NPRR894 as submitted. Mr. Wittmeyer seconded the motion. The motion carried unanimously.**

*NPRR895, Inclusion of Photo-Voltaic Generation Resources (PVGRs) in Real-Time Ancillary Service Imbalance Payment or Charge*

**Mr. Greer moved to recommend approval of NPRR895 as submitted. Mr. Haley seconded the motion. The motion carried unanimously.**

*NPRR896, Reliability Must-Run and Must-Run Alternative Evaluation Process*

**Mr. Burke moved to table NPRR896 and refer the issue to ROS and WMS. Mr. Greer seconded the motion. The motion carried unanimously.**

*NPRR897, Adjustments to Black Start Service (BSS) Procurement Timeline and Testing*

Market Participants discussed the merits of NPRR897 and the 9/5/18 STEC comments, and requested additional review of the proposed timeline and testing process by ROS. Some Market Participants expressed concern for implementation prior to the next bid cycle and potential market impacts. ERCOT Staff noted that NPRR897 does not revise the bid selection process or pose market impacts, and summarized the Black Start Working Group (BSWG) discussions.

**Mr. Burke moved to table NPRR897 and refer the issue to ROS. Mr. Greer seconded the motion. The motion carried unanimously**

Resource Definition Task Force (RTF)

Mr. Wittmeyer reviewed recent RTF activities.

Other Business

*TAC Subcommittee Structural Review*

Ms. Henson noted the annual TAC/TAC Subcommittee Structural and Procedural Review meeting on September 13, 2018, following the conclusion of the PRS meeting and encouraged Market Participants to attend.

*2019 Meeting Schedule*

Ms. Henson stated that due to concerns regarding TAC and PRS meetings conflicting with the Public Utility Commission of Texas (PUCT) Open Meetings, alternatives for 2019 were being considered.

Adjournment

Ms. Henson adjourned the September 13, 2018 PRS meeting at 11:03 a.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at http://www.ercot.com/calendar/2018/9/13/138508-PRS unless otherwise noted [↑](#footnote-ref-1)