**APPROVED**

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

**Webex Only**

**Thursday, July 16, 2020 – 9:30 a.m.**

Attendance

*Members:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | | |
| Barnes, Bill | Reliant Energy Retail Services |  | | |
| Claiborn-Pinto, Shawnee | OPUC |  | | |
| Coleman, Diana | CPS Energy |  | | |
| Greer, Clayton | Morgan Stanley |  | | |
| Gross, Blake | AEP Service Corporation |  | | |
| Haley, Ian | Luminant Generation |  | | |
| Heino, Shari | Brazos Electric Cooperative |  | | |
| Henson, Martha | Oncor |  | | |
| Mindham, David | EDP Renewables |  | | |
| Morris, Sandy | Direct Energy |  | | |
| Smith, Day | Denton Municipal Electric |  | | |
| Trevino, Melissa | Occidental Chemical |  | | |
| Turner, Lucas | South Texas Electric Cooperative |  | | |
| Varnell, John | Tenaska Power Services |  | | |
|  |  | | |  |
| *Guests:* |  | | |  |
| Ainspan, Malcolm | NRG | | |  |
| Aldridge, Ryan | AB Power Advisors | | |  |
| Alford, Anthony | CenterPoint Energy | | |  |
| Basaran, Harika | PUCT | | |  |
| Benson, Mariah | PUCT | | |  |
| Bertin, Suzanne | Texas Advanced Energy | | |  |
| Bivens, Carrie | Potomac Economics | | |  |
| Blakey, Eric | Just Energy | | |  |
| Bonskowski, Ned | Vistra | | |  |
| Bruce, Mark | Cratylus Advisors | | |  |
| Bruns, Scott | Direct Energy | | |  |
| Burnett, Benjamin | CenterPoint Energy | | |  |
| Callender, Wayne | CPS Energy | | |  |
| Checkley, Jim | Cross Texas Transmission | | |  |
| Cochran, Seth | DC Energy | | |  |
| Coleman, Katie | TIEC | | |  |
| Constantinou, Joseph | Merrill Lynch | | |  |
| Cortez, Sarai | Sharyland | | |  |
| Coultas, Ann | Enel | | |  |
| Daigneault, Ralph | Potomac Economics | | |  |
| Daniel, Jim | GDS and Associates | | |  |
| Detelich, David | CPS Energy | | |  |
| Downey, Martin |  | | |  |
| Dreyfus, Mark | MD Energy Consulting | | |  |
| Dumas, John | LCRA | | |  |
| Dwyer, Davida | PUCT | | |  |
| Fernandes, John | Customized Energy Solutions | | |  |
| Glenwright, Tristan | Tesla | | |  |
| Goff, Eric |  | | |  |
| Harvey, Julia | Texas Electric Cooperative | | |  |
| Hasan, Prusha | Advanced Energy Economy | | |  |
| Harper, Sam | Gerdau | | |  |
| Helton, Bob | ENGIE | | |  |
| Hetherington, Bill | Bandera Electric Cooperative | | |  |
| Howe, Eileen | Hecate Energy | | |  |
| Huynh, Thuy | Potomac Economics | | |  |
| Javiya, Keyur | Tesla | | |  |
| Jewell, Michael | Able Grid and Enel | | |  |
| Johnson, Anthony | CenterPoint Energy | | |  |
| Jolly, Emily | LCRA | | |  |
| Jones, Liz | Oncor | | |  |
| Kee, David | CPS Energy | | |  |
| Lange, Clif | South Texas Electric Cooperative | | |  |
| Lee, Jim | AEP TX | | |  |
| Littlefield, Jennifer | Haynes & Boone | | |  |
| McKeever, Debbie | Oncor | | |  |
| Moorehead, Doug | Broad Reach Power | | |  |
| Musher, Danny | Key Capture Energy | | |  |
| Nguyen, Andy | LCRA | | |  |
| Park, Soo-Seon | Shell Energy | | |  |
| Powell, Christian | Pedernales Electric Cooperative | | |  |
| Reader, Raborn | Enterprise Productions | | |  |
| Reed, Cyrus | Sierra Club | | |  |
| Reedy, Steve | Potomac Economics | | |  |
| Rehfeldt, Diana | TNMP | | |  |
| Reid, Walter | Advanced Power Alliance | | |  |
| Rich, Katie | Golden Spread Electric Cooperative | | |  |
| Rochelle-Bradburn, Jennifer | Customized Energy Solutions | | |  |
| Sams, Bryan | Calpine Corporation | | |  |
| Scott, Kathy | CenterPoint Energy | | |  |
| Sharma Frank, Arushi | Tesla | | |  |
| Siddiqi, Shams | Crescent Power | | |  |
| Sithuraj, Murali | Austin Energy | | |  |
| Smith, Caitlin | AB Power Advisors | | |  |
| Smith, Chris | Austin Energy | | |  |
| Smith, Mark | Nucor | | |  |
| Surendran, Resmi | Shell Energy | |  | |
| Thompson, David | Pedernales Electric Cooperative | |  | |
| Tran, Diane | TIEC | |  | |
| True, Roy | ACES Power | |  | |
| Van Zee, Katie | Texas Reliability Entity | |  | |
| Velasquez, Ivan | Oncor | |  | |
| Wittmeyer, Bob | Broad Reach Power | |  | |
| Wolfe, Joe | Rainbow Energy | |  | |
| *ERCOT Staff* |  | |  | |
| Albracht, Brittney |  | |  | |
| Anderson, Connor |  | |  | |
| Anderson, Troy |  | |  | |
| Ayson, Janice |  | |  | |
| Barati, Camron |  | |  | |
| Bigbee, Nathan |  | |  | |
| Blevins, Bill |  | |  | |
| Boren, Ann |  | |  | |
| Boswell, Bill |  | | |  |
| Bracy, Phil |  | | |  |
| Castillo, Leo |  | | |  |
| Chen, Jian |  | | |  |
| Clifton, Suzy |  | | |  |
| Dinopol, Ohlen |  | | |  |
| Flores, Isabel |  | | |  |
| Fohn, Douglas |  | | |  |
| Ganjoo, Shalesh |  | | |  |
| Gonzalez, Ino |  | | |  |
| Gore, Amy |  | | |  |
| Hughes, Lindsey |  | | |  |
| Hui, Hailong |  | | |  |
| Hull, Gibson |  | | |  |
| Jones, Dan |  | | |  |
| Kane, Erika |  | | |  |
| Lasher, Warren |  | | |  |
| Maggio, Dave |  | | |  |
| Mago, Nitika |  | | |  |
| Matevosyan, Julia |  | | |  |
| Matlock, Robert |  | | |  |
| Mereness, Matt |  | | |  |
| Miller, Megan |  | | |  |
| Moorty, Sai |  | | |  |
| Morehead, Juliana |  | | |  |
| Moreno, Alfredo |  | | |  |
| Orr, Rob |  | | |  |
| Patterson, Mark |  | | |  |
| Phillips, Cory |  | | |  |
| Ragsdale, Kenneth |  | | |  |
| Rios, Diana |  | | |  |
| Roberts, Randy |  | | |  |
| Rosel, Austin |  | | |  |
| Ruane, Mark |  | | |  |
| Shaw, Pam |  | | |  |
| Shimp, Tedd |  | | |  |
| Solis, Stephen |  | | |  |
| Sopko, Leslie |  | | |  |
| Spells, Vanessa |  | | |  |
| Taylor, Sean |  | | |  |
| Teixeira, Jay |  | | |  |
| Thompson, Chad |  | | |  |
| Townsend, Aaron |  | | |  |
| Troublefield, Jordan |  | | |  |
| Tucker, Don |  | | |  |
| Wattles, Paul |  | | |  |
| Wiley, Leslie |  | | |  |
| Woodfin, Dan |  | | |  |

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

Martha Henson called the July 16, 2020 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)

*June 11, 2020*

Market Participants reviewed the June 11, 2020 PRS Meeting Minutes. Ms. Henson noted this item was slated for inclusion in the [Combined Ballot](#Combined_Ballot).

Technical Advisory Committee (TAC) and Board Reports

Ms. Henson reported the disposition of items considered at the June 24, 2020 TAC meeting.

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, reviewed the 2020 release targets and project spending. Mr. Anderson summarized the project prioritization discussion at the June 11, 2020 PRS meeting, presented approved Revision Requests for potential implementation in Summer 2021 and prior to Real Time Co-optimization (RTC), and requested stakeholder direction. Market Participants discussed the high priority projects and resource constraints, and requested ERCOT provide additional analysis of the items with the ERCOT recommendations for the August 6, 2020 PRS meeting. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects.

Annual Review of Other Binding Documents List (see Key Documents)

Ms. Henson reminded Market Participants of the Protocol requirement for PRS to review the list of Other Binding Documents annually and presented the current list. Ms. Henson noted this item was slated for inclusion in the [Combined Ballot](#Combined_Ballot).

Urgency Vote(s) (see Key Documents)

*Nodal Protocol Revision Request (NPRR) 1030, Modify Allocator for CRR Auction Revenue Distribution*

Dan Jones provided an overview of the proposed solutions to issues identified in NPRR1030.Some Market Participants and the Independent Market Monitor (IMM) expressed support for expeditious resolution by moving NPRR1030 forward on an Urgent timeline.

**Clayton Greer moved to grant NPRR1030 Urgent status, to recommend approval of NPRR1030 as submitted, and to forward NPRR1030 and the Impact Analysis to TAC with a recommended priority of 2020 and rank of 2515. Bill Barnes seconded the motion.** Some Market Participants requested further review of alternative solutions by the Wholesale Market Subcommittee (WMS).  **Ian Haley moved to table NPRR1030 and refer the issues to WMS. Murali Sithuraj seconded the motion. The motion failed via roll call vote with fifteen objections from the Consumer (3) (OPUC, Sierra Club, Occidental), Cooperative (Brazos), Independent Generator (4) (Calpine, Tesla, ENGIE, EDP), Independent Power Marketer (IPM) (3) (Tenaska, Merrill Lynch, Morgan Stanley), Independent Retail Electric Provider (IREP) (2) (Reliant, Direct Energy), and Investor Owned Utility (IOU) (2) (Oncor, AEP) Market Segments and 5 abstentions from the Consumer (Nucor), Cooperative (PEC), Independent Generator (2) (Enel, Broad Reach Power) and IPM (Shell Energy) Market Segments.** *(Please see ballot posted with Key Documents.)*

**The motion to grant NPRR1030 Urgent status, to recommend approval of NPRR1030 as submitted, and to forward NPRR1030 and the Impact Analysis to TAC with a recommended priority of 2020 and rank of 2515 carried via roll call ballot with 4 objections from the Cooperative (2) (GSEC, STEC), Independent Generator (Luminant), and Municipal (Austin Energy) Market Segments and seven abstentions from the Consumer (Nucor), Cooperative (4) (Brazos, PEC, LCRA, BEC), and Independent Generator (2) (Enel, Broad Reach Power) Market Segments. (***Please see ballot posted with Key Documents.)*

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

*NPRR996, Alignment of Hub Bus Names Between Protocols and ERCOT Model*

*NPRR1000, Elimination of Dynamically Scheduled Resources*

*NPRR1003, Elimination of References to Resource Asset Registration Form*

*NPRR1004, Load Distribution Factor Process Update*

*Nodal Operating Guide Revision Request (NOGRR) 195, Generator Voltage Control Tolerance Band*

*Planning Guide Revision Request (PGRR) 076, Improvements to Generation Resource Interconnection or Change Request (GINR) Process*

Ms. Henson noted NPRR996, NPRR1000, NPRR1003, NPRR1004, NOGRR195, and PGRR076 were slated for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR984, Change ERS Standard Contract Terms*

Market Participants reviewed NPRR984.

**Bob Wittmeyer moved to endorse and forward to TAC the 6/11/20 PRS Report and the Impact Analysis for NPRR984. Bryan Sams seconded the motion. The motion carried via roll call ballot with one objection from the IPM (Morgan Stanley) Market Segment and two abstentions from the Independent Generator (Luminant) and IPM (Merrill Lynch) Market Segments. (***Please see ballot posted with Key Documents.)*

*NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions*

Market Participants reviewed the 7/9/2020 ERCOT comments and the appropriate priority and rank for NPRR1002, and offered clarifications. Ms. Henson noted NPRR1002 was slated for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1016, Clarify Requirements for Distribution Generation Resources (DGRs) and Distribution Energy Storage Resources (DESRs)*

Market participants discussed the 7/14/20 ERCOT comments, offered additional clarifications to the Business Case, and reviewed the Impact Analysis to determine a recommended priority and rank. Ms. Henson noted NPRR1002 was slated for inclusion in the [Combined Ballot](#Combined_Ballot).

Revision Requests Tabled at PRS (see Key Documents)

*NPRR945, Net Metering Requirements*

*NPRR947, Clarification to Ancillary Service Supply Responsibility Definition and Improvements to Determining and Charging for Ancillary Service Failed Quantities*

*NPRR956, Designation of Providers of Transmission Additions*

*NPRR966, Changes to Support Reactive Power Coordination Tool*

*NPRR979, Incorporate State Estimator Standards and Telemetry Standards into Protocols*

*NPRR981, Day-Ahead Market Price Correction Process*

*NPRR994, Clarify Generator Interconnection Neutral Project Classification*

*NPRR995, RTF-6 Create Definition and Terms for Settlement Only Energy Storage*

*NPRR1001, Clarification of Definitions of Operating Condition Notice, Advisory, Watch, Emergency Notice, and Related Clarifications*

*NPRR1005, Clarify Definition of Point of Interconnection (POI) and Add Definition Point of Interconnection Bus (POIB)*

*NPRR1007, RTC – NP 3: Management Activities for the ERCOT System*

*NPRR1008, RTC – NP 4: Day-Ahead Operations*

*NPRR1009, RTC – NP 5: Transmission Security Analysis and Reliability Unit Commitment*

*NPRR1010, RTC – NP 6: Adjustment Period and Real-Time Operations*

*NPRR1011, RTC – NP 8: Performance Monitoring*

*NPRR1012, RTC – NP 9: Settlement and Billing*

*NPRR1013, RTC – NP 1, 2, 16, and 25: Overview, Definitions and Acronyms, Registration and Qualification of Market Participants, and Market Suspension and Restart*

*NPRR1014, BESTF-4 Energy Storage Resource Single Model*

*NPRR1017, Management of Congestion Revenue Rights (CRRs) and Resource Node Removals*

*NPRR1023, Change to CRR Repossession Process*

*NPRR1024, Determination of Significance with Respect to Price Correction*

PRS took no action on these items.

*NPRR999, DC Tie Ramp Limitations*

Market Participants reviewed the 7/2/20 ERCOT comments. Ms. Henson noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

*NPRR1015, Clarification of DAM implementation of NPRR863 Phase 2*

ERCOT Staff summarized recent Battery Energy Storage Task Force (BESTF) discussions, the 7/2/20 ERCOT comments, and reviewed the implementation timeline. Market Participants expressed support to move NPRR1015 forward to the August ERCOT Board of Directors meeting to align with ongoing work on NPRR863, Creation of ERCOT Contingency Reserve Service and Revisions to Responsive Reserve. Ms. Henson noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

*NPRR1020, Add Definition of Integrated Battery Storage Systems (IBSS)*

Eric Goff summarized NPRR1020, the 7/15/20 Tesla comments and previous discussions at NPRR1020 workshops. Don Tucker summarized the 7/14/20 ERCOT comments. Ian Haley summarized the 7/15/20 Luminant comments. Market Participants debated implications of the proposed process, including metering approval and certifying metering accuracy; and discussed risks associated with references to the Settlement Metering Operating Guide (SMOG) for which no revision requests are yet proposed. Market Participants proposed additional clarifications to the 7/15/20 Luminant comments. Ms. Henson noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

*NPRR1025, Remove Real-Time On-Line Reliability Deployment Price from Ancillary Service Imbalance Calculation – URGENT*

Market Participants requested additional time to review NPRR1025. Emily Jolly stated the concepts in NPRR1025 have been discussed in various forums over several months, reminded Market Participants that urgent status was granted, noted no clarifications have been submitted, and requested PRS consider the issues at the August 13, 2020 PRS meeting. PRS took no action on this item.

Review of Revision Request Language (see Key Documents)

*NPRR1026, BESTF-7 Self-Limiting Facilities and Self-Limiting Resources*

*NPRR1029, BESTF-6 DC-Coupled Resources*

Ms. Henson noted these items could be considered in the [Combined Ballot](#Combined_Ballot).

*NPRR1027, Removal of Grey-Boxed Language Related to NPRR702, Flexible Accounts, Payment of Invoices, and Disposition of Interest on Cash Collateral*

Leslie Wiley summarized NPRR1027. Market Participants discussed NPRR1027’s estimated cost savings.

Ms. Henson noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

*NPRR1028, RUC Process Alignment with Resource Limits*

Mr. Barnes summarized NPRR1028. Market requested review of the language in NPRR1028 and potential improvements to the concept by WMS. Ms. Henson noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

Resource Definition Task Force (RTF)

*Disband the RTF*

Mr. Wittmeyer summarized the accomplishments of the RTF, provided an update on RTF-3, Load Resources Framework, and requested PRS disband the RTF Ms. Henson noted this item was slated for inclusion in the [Combined Ballot](#Combined_Ballot).

Combined Ballot

**Bob Helton moved to approve the Combined Ballot as follows:**

* **To approve the June 11, 2020 PRS meeting minutes as submitted**
* **To recommend approval of the current Other Binding Documents List**
* **To endorse and forward to TAC the 6/11/20 PRS Report and the Impact Analysis for NPRR996**
* **To endorse and forward to TAC the 6/11/20 PRS Report and Impact Analysis for NPRR1000**
* **To endorse and forward to TAC the 6/11/20 PRS Report as amended by the 7/9/20 ERCOT comments as revised by PRS and Impact Analysis for NPRR1002 with a recommended priority of 2020 and rank of 3060**
* **To endorse and forward to TAC the 6/11/20 PRS Report as amended by the 7/13/20 ERCOT comments and the Impact Analysis for NPRR1003**
* **To endorse and forward to TAC the 6/11/20 PRS Report and the Impact Analysis for NPRR1004 with a recommended priority of 2021 and rank of 3210**
* **To endorse the Reliability and Operations Subcommittee (ROS) recommended priority of 2020 and rank of 300 for NOGRR195**
* **To endorse the Reliability and Operations Subcommittee (ROS) recommended priority of 2021 and rank of 3200 for PGRR 076**
* **To recommend approval of NPRR999 as amended by the 7/2/20 ERCOT comments**
* **To grant NPRR1015 Urgent status, to recommend approval of NPRR1015 as amended by the 7/2/20 ERCOT comments, and to forward NPRR1015 and the Impact Analysis to TAC**
* **To grant NPRR1020 Urgent status, to recommend approval of NPRR1020 as amended by the 7/15/20 Luminant comments as revised by PRS, and to forward NPRR1020 to TAC**
* **To table NPRR1026**
* **To table NPRR1029**
* **To recommend approval of NPRR1027 as submitted**

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

Other Business

*Administration of Workshops*

Market Participants discussed the logistical considerations in hosting a workshop. Ms. Henson stated that future requests to discuss PRS issues in a workshop forum would be considered if Stakeholders are willing to host the workshop.

Adjournment

Ms. Henson adjourned the July 16, 2020 PRS meeting at 2:32 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at http://www.ercot.com/calendar/2020/7/16/188378-PRS unless otherwise noted [↑](#footnote-ref-1)