**APPROVED**

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

**Webex Only**

**Thursday, June 11, 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:* |  |  |
| Abbott, Kristin | PUCT |  |
| Ainspan, Malcolm | NRG |  |
| Alford, Anthony | CenterPoint Energy |  |
| Ashley, Kristy | Customized Energy Solutions |  |
| Basaran, Harika | PUCT |  |
| Beck, Betsy  | Enel Green Power North America |  |
| Bennett, Stacie | Lone Star Transmission |  |
| Benson, Mariah | PUCT |  |
| Bivens, Carrie | Potomac Economics |  |
| Blakey, Eric | Just Energy |  |
| Brandin, Sam | Able Grid |  |
| Bruce, Mark | Cratylus Advisors |  |
| Bunch, Kevin | EDF Trading |  |
| Callender, Wayne | CPS Energy |  |
| Chhajed, Pushkar | LCRA |  |
| Cochran, Seth | DC Energy |  |
| Coleman, Katie  | TK Law |  |
| Constantinou, Joseph | Merrill Lynch |  |
| Cook, Tim | Cross Texas Transmission  |  |
| Cortez, Sarai | Sharyland |  |
| Coultas, Ann | Enel |  |
| Daigneault, Ralph | Potomac Economics |  |
| Downey, Marty |   |  |
| Dumas, John | LCRA |  |
| Dwyer, Davida | PUCT |  |
| English, Barksdale | PUCT |  |
| Farhangi, Anoush | DC2 |  |
| Goff, Eric |  |  |
| Harvey, Julia | Texas Electric Cooperative |  |
| Hasan, Prusha | Advanced Energy Economy |  |
| Helton, Bob | ENGIE |  |
| Hetherington, Bill | Bandera Electric Cooperative |  |
| Huynh, Thuy | Potomac Economics |  |
| Jewell, Michael | Able Grid and Enel |  |
| Johnson, Anthony | CenterPoint Energy |  |
| Jolly, Emily | LCRA |  |
| Jones, Liz | Oncor |  |
| Jones, Randy | Mountaineer Market Advisors |  |
| Khayat, Maribel | CenterPoint Energy |  |
| Kee, David | CPS Energy |  |
| Lange, Clif | South Texas Electric Cooperative |  |
| Lee, Jim | AEP TX |  |
| Loving, Alicia | Austin Energy |  |
| McCamant, Frank | McCamant Consulting |  |
| McKeever, Debbie | Oncor |  |
| Meneley, Amy | LCRA |  |
| Moorehead, Doug | Broad Reach Power |  |
| Musher, Danny | Key Capture Energy |  |
| Muston, Bill | Oncor |  |
| Nagarajan, Ramya | Cross Texas Transmission |  |
| Nguyen, Andy | LCRA |  |
| Peters, Patrick | CenterPoint Energy |  |
| Powell, Christian | Pedernales Electric Cooperative |  |
| Reed, Cyrus | Sierra Club |  |
| Reedy, Steve | Potomac Economics |  |
| Reid, Walter | Advanced Power Alliance |  |
| Richmond, Michele | TCPA |  |
| Rich, Katie | Golden Spread Electric Cooperative |  |
| Ritch, John | NextEra Energy |  |
| Sams, Bryan | Calpine Corporation |  |
| Schauer, Trent | AB Power Advisors |  |
| 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 |  |
| Tran, Diane | TIEC |  |
| True, Roy | ACES Power |  |
| Van Cleve, Sara | Tesla |  |
| Van Zee, Katie | Texas Reliability Entity |  |
| Velasquez, Ivan | Oncor |  |
| Watson, Mark | SP Global |  |
| White, Lauri | AEP |  |
| Wittmeyer, Bob | Broad Reach Power |  |
| Zerwas, Rebecca | PUCT |  |
| *ERCOT Staff* |  |  |
| Albracht, Brittney |  |  |
| Anderson, Connor |  |  |
| Anderson, Troy |  |  |
| Ayson, Janice |  |  |
| Bigbee, Nathan |  |  |
| Billo, Jeff |  |  |
| Blevins, Bill |  |  |
| Boren, Ann |  |  |
| Boswell, Bill |  |  |
| Bracy, Phil  |   |  |
| Castillo, Leo |  |  |
| Chen, Jian |  |  |
| Clifton, Suzy |  |  |
| Comstock, Read |  |  |
| Du, Pengwei |  |  |
| Fohn, Doug |  |  |
| Gonzalez, Ino |  |  |
| Hanson, Kevin |  |  |
| Hobbs, Kristi |  |  |
| House, Donald |  |  |
| Hughes, Lindsey |  |  |
| Hull, Gibson |  |  |
| Jones, Dan |  |  |
| Kane, Erika |  |  |
| Lasher, Warren |  |  |
| Levine, Jonathan |  |  |
| Maggio, Dave |  |  |
| Mago, Nitika |  |  |
| Matevosyan, Julia |  |  |
| Mendoza, Albert |  |  |
| Moorty, Sai |  |  |
| Morehead, Juliana |  |  |
| Moreno, Alfredo |  |  |
| Opheim, Calvin |  |  |
| Orr, Rob |  |  |
| Patterson, Mark |  |  |
| Phillips, Cory |  |  |
| Ragsdale, Kenneth |  |  |
| Roberts, Randy |  |  |
| Rosel, Austin |  |  |
| Ruane, Mark |  |  |
| Shanks, Magie |  |  |
| Sharma, Sandip |  |  |
| Shaw, Pam |  |  |
| Solis, Stephen |  |  |
| Stice, Clayton |  |  |
| Teixeira, Jay |  |  |
| Townsend, Aaron |  |  |
| Troublefield, Jordan |  |  |
| Tucker, Don |  |  |
| Wattles, Paul |  |  |
| Woodfin, Dan |  |  |
| Zeplin, Rachel |  |  |

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

Martha Henson called the June 11, 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)

*February 13, 2020*

Market Participants reviewed the February 13, 2020 PRS Meeting Minutes. Ms. Henson noted this item was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no questions or comments from Market Participants.

Technical Advisory Committee (TAC) and Board Reports

Ms. Henson summarized discussion from the May 27, 2020 TAC Information Session, noted that the TAC Procedures, effective June 1, 2020 allow remote voting for TAC and TAC Subcommittees, and reviewed the proposed voting process to maximize efficiencies for items to be considered by PRS. There were no questions or comments from Market Participants. Ms. Henson reported the disposition of Revision Requests considered at the June 9, 2020 Urgent Board of Directors 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, and responded to questions and comments from Market Participants. Mr. Anderson highlighted resource constraints for approved Revision Requests not yet started and encouraged Market Participants to review the list in consideration of further discussion on prioritization at the July 16, 2020 PRS meeting. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects.

Urgency Vote(s) (see Key Documents)

*Nodal Protocol Revision Request (NPRR) 1025, Remove Real-Time On-Line Reliability Deployment Price from Ancillary Service Imbalance Calculation*

John Dumas summarized the request for Urgent status for NPRR1025 in consideration of the implementation timeline of NPRR1006, Update Real-Time On-Line Reliability Deployment Price Adder Inputs to Match Actual Data, the intent of NPRR1025 and the 6/9/20 LCRA comments. Some Market Participants expressed concern for cost impacts in consideration of implementation of Real-Time Co-optimization. (RTC)

**Ian Haley moved to grant NPRR1025 Urgent status, and to table NPRR1025 and refer the issue to the Wholesale Market Working Group (WMS). Sandy Morris seconded the motion. The motion carried via roll call vote with one objection from the Independent Power Market (IPM) (Morgan Stanley) Market Segment and one abstention from the IPM (Shell Energy) Market Segment.** *(Please see ballot posted with Key Documents.)[[2]](#footnote-2)*

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

*NPRR983, Delete Remaining Grey-Boxed Language Associated with NPRR257, Synchronization with Nodal Operating Guide Section 9, Monitoring Programs and Changes to Posting Requirements of Documents Considered CEII*

*NPRR992, Updated Day-Ahead Liability for NPRR863, Creation of ERCOT Contingency Reserve Service and Revisions to Responsive Reserve*

*NPRR993, Grey Box Resolution re NPRR902 and NPRR928*

Ms. Henson noted NPRR983, NPRR992 and NPRR993 were slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

*NPRR1000, Elimination of Dynamically Scheduled Resources*

Market Participants noted the 6/9/20 ERCOT comments requesting an additional month to develop the Impact Analysis for NPRR1000. Ms. Henson noted NPRR1000 was slated for inclusion in the [Combined Ballot.](#Combined_Ballot) There were no objections from Market Participants.

*System Change Request (SCR) 810, EMS System Change to Count DC Ties toward the 2% Constraint Activation Criterion*

Market Participants reviewed the Impact Analysis and appropriate priority and rank for SCR810. Ms. Henson noted SCR810 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

Revision Requests Tabled at PRS (see Key Documents)

*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*

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

PRS took no action on these items.

*NPRR945, Net Metering Requirements*

Katie Coleman reviewed NPRR945. Katie Rich summarized the 6/9/20 GSEC comments. Some Market Participants expressed support for allocating transmission costs to Loads in a non-discriminatory manner. Market Participants noted the complexity of the issues and requested further discussion in a workshop forum. Ms. Coleman and Ms. Rich offered to host the July 7, 2020 NPRR945 Workshop. PRS took no action on this item.

*NPRR984, Change ERS Standard Contract Terms*

Ms. Henson summarized NPRR984, the 2/13/20 ERCOT comments and 3/9/20 WMS comments, and noted NPRR984 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

*NPRR991, Day-Ahead Market (DAM) Point-to-Point (PTP) Obligation Bid Clearing Price Clarification*

Ms. Henson summarized NPRR991 and the 6/8/20 WMS comments, and noted NPRR991 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

*NPRR994, Clarify Generator Interconnection Neutral Project Classification*

**Bill Barnes moved to recommend approval of NPRR994 as amended by the 4/15/20 ERCOT comments. Bryan Sams seconded the motion.** Market Participants requested review of the market issues at WMS. Other Market Participants noted that the discussion should not include issues related to NPRR913, Generator Interconnection Neutral Project Classification which was rejected. **Clayton Greer moved to table NPRR994 and refer the issues to WMS. Murali Sithuraj seconded the motion. The motion carried with three objections from the Investor Owned Utility (IOU) (2) (Oncor, AEP) and Independent Generator (Calpine) Market Segments and three abstentions from the Cooperative (Pedernales) and Independent Generator (2) (Luminant, EDP Renewables) Market Segments.**  *(Please see ballot posted with Key Documents.)[[3]](#footnote-3)*

Review of Revision Request Language (see Key Documents)

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

Alfredo Moreno summarized NPRR996. Ms. Henson noted NPRR996 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

*NPRR999, DC Tie Ramp Limitations*

Market Participants discussed tabling NPRR999 pending ERCOT comments. Ms. Henson noted NPRR999 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Dan Woodfin summarized NPRR1001 and stated that Nodal Operating Guide Revision Request (NOGRR) 207, Related to NPRR1001, Clarification of Definitions of Operating Condition Notice, Advisory, Watch, Emergency Notice, and Related Clarifications was being considered at the Reliability and Operations Subcommittee (ROS). Ms. Henson noted NPRR1001 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Sandip Sharma summarized NPRR1002, the 5/7/20 ERCOT comments and 6/8/20 ROS comments. Ms. Henson noted NPRR1002 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

*NPRR1004, Load Distribution Factor Process Update*

Ms. Henson noted NPRR1003 and NPRR1004 were slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Jay Teixeira summarized NPRR1005. Market Participants discussed further refinements to definitions, and requested additional time to review potential impacts of definition changes to pending interconnections. Ms. Henson noted NPRR1005 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

*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*

Ms. Henson noted that NPRR1007, NPRRR1008, NPRR1009, NPRR1010, NPRR1011, NPRR10212, and NPRR1013 would be taken up by the Real-Time Co-Optimization Task Force (RTCTF) and that NPRR1014 would be taken up by the Battery Energy Storage Task Force (BESTF) and that they were slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Mr. Moreno summarized NPRR1015 and responded to Market Participant questions and comments on the intent of NPRR105. Market Participants requested tabling NPRR1015 to allow for discussion at the Battery Energy Storage Task Force (BESTF). Ms. Henson noted NPRR1015 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Bill Blevins summarized NPRR1016 and the 5/26/20 ERCOT comments. Market Participants expressed appreciation for the collaborative process ERCOT used to develop NPRR1016. Ms. Henson noted NPRR1016 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Donald House summarized NPRR1017. Market Participants requested review of the issues by WMS. Ms. Henson noted NPRR1017 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Ms. Henson noted the technical discussion of the issues at the 5/27/20 NPRR1020 Workshop. Mr. Sams summarized the 6/10/20 Calpine comments and the alternative solution proposed in the second set of 6/10/20 Calpine comments. Bob Wittmeyer summarized the 6/10/20 Broad Reach Enel Able Grid comments. Market Participants discussed Wholesale Storage Load (WSL) treatment for energy consumed by integrated battery systems, netting requirements and metering issues. Clif Lange summarized the 6/10/20 STEC GSEC comments. Market Participants discussed whether the stakeholder process is the suitable forum for discussions. **Lucas Turner moved to reject NPRR1020. Mr. Greer seconded the motion.** Market Participants further discussed the criteria for station power auxiliary Load exemptions and the alternate solutions. Rebecca Zerwas stated the stakeholder process is best suited on a granular level to review WSL treatment and potential solutions and encouraged Market Participants to consider the issues. **Mr. Wittmeyer moved to table NPRR1020. Mr. Barnes seconded the motion. The motion carried via roll call vote with two objections from the Cooperative (GSEC, STEC) Market Segments and one abstention from the Independent Generator (Luminant) Market Segment.**  *(Please see ballot posted with Key Documents.)[[4]](#footnote-4)* Market Participants requested a workshop regarding estimating the Load for IBSS and metering solutions.

*NPRR1023, Change to CRR Repossession Process*

Mr. House summarized NPRR1023. Market Participants noted concepts proposed in NPRR1023 were discussed previously at the Credit Work Group (Credit WG) and Market Credit Working Group (MCWG) meeting and the Congestion Management Working Group (CMWG) meeting and requested further review of the issues at WMS. Ms. Henson noted NPRR1023 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

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

Jian Chen summarized NPRR1024 and discussions at the Wholesale Market Working Group (WMWG) meetings. Market Participants requested further review of the issues at WMS. Ms. Henson noted NPRR1024 was slated for inclusion in the [Combined Ballot](#Combined_Ballot). There were no objections from Market Participants.

Combined Ballot

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

* **To approve the February 13, 2020 PRS meeting minutes as submitted**
* **To endorse and forward to TAC the 2/13/20 PRS Report and Impact Analysis for NPRR983**
* **To endorse and forward to TAC the 2/13/20 PRS Report and Impact Analysis for NPRR992**
* **To endorse and forward to TAC the 2/13/20 PRS Report and Impact Analysis for NPRR993**
* **To table NPRR1000**
* **To endorse and forward to TAC the 5/15/20 PRS Report and Impact Analysis for SCR810 with a recommended priority of 2020 and rank of 3050**
* **To recommend approval of NPRR984 as amended by the 2/13/20 ERCOT comments**
* **To reject NPRR991**
* **To recommend approval of NPRR996 as submitted**
* **To table NPRR999**
* **To table NPRR1001 and refer the issue to ROS**
* **To recommend approval of NPRR1002 as amended by the 5/7/20 ERCOT comments**
* **To recommend approval of NPRR1003 as submitted**
* **To recommend approval of NPRR1004 as submitted**
* **To table NPRR1005**
* **To table NPRR1007**
* **To table NPRR1008**
* **To table NPRR1009**
* **To table NPRR1010**
* **To table NPRR1011**
* **To table NPRR1012**
* **To table NPRR1013**
* **To table NPRR1014**
* **To table NPRR1015**
* **To recommend approval of NPRR1016 as amended by the 5/28/20 ERCOT comments**
* **To table NPRR1017 and refer the issue to WMS**
* **To table NPRR1023 and refer the issue to WMS**
* **To table NPRR1024 and refer the issue to WMS**

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

Resource Definition Task Force (RTF)

Mr. Wittmeyer summarized RTF accomplishments and outstanding items, and requested PRS consider to disband the RTF at the July 16, 2020 PRS meeting.

Other Business

There was no other business.

Adjournment

Ms. Henson adjourned the June 11, 2020 PRS meeting at 2:42 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at http://www.ercot.com/calendar/2020/6/11/188373-PRS unless otherwise noted [↑](#footnote-ref-1)
2. http://www.ercot.com/mktrules/issues/NPRR1025 [↑](#footnote-ref-2)
3. http://www.ercot.com/mktrules/issues/NPRR994#keydocs [↑](#footnote-ref-3)
4. http://www.ercot.com/mktrules/issues/NPRR1020#keydocs [↑](#footnote-ref-4)