**DRAFT**

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

**Webex Only**

**Thursday, September 10, 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 |  | | |
| Heino, Shari | Brazos Electric Cooperative |  | | |
| Henson, Martha | Oncor |  | | |
| Lange, Clif | South Texas Electric Cooperative | Alt. Rep. for Lucas Turner | | |
| Mindham, David | EDP Renewables |  | | |
| Morris, Sandy | Direct Energy |  | | |
| Schatz, John | Luminant Generation | Alt. Rep. for Ian Haley | | |
| Smith, Day | Denton Municipal Electric |  | | |
| Trevino, Melissa | Occidental Chemical |  | | |
| Varnell, John | Tenaska Power Services |  | | |
|  |  | | |  |
| *Guests:* |  | | |  |
| Ainspan, Malcolm | NRG | | |  |
| Aldridge, Ryan | AB Power Advisors | | |  |
| Alford, Anthony | CenterPoint Energy | | |  |
| Ashley, Kristy | Customized Energy Solutions | | |  |
| Bennett, Stacie | Lonestar Transmission | | |  |
| Benson, Mariah | PUCT | | |  |
| Bivens, Carrie | Potomac Economics | | |  |
| Blakey, Eric | Just Energy | | |  |
| Bonskowski, Ned | Vistra | | |  |
| Bruce, Mark | Cratylus Advisors | | |  |
| Bunch, Kevin | EDF Trading | | |  |
| Carson, Michael | Trafigura | | |  |
| Cochran, Seth | DC Energy | | |  |
| Coleman, Katie | TIEC | | |  |
| Cook, Tim | CTT | | |  |
| Corona, Connie | PUCT | | |  |
| Coutas, Ann | Enel | | |  |
| Cripe, Ramsey | Schneider Engineering | | |  |
| Daigneault, Ralph | Potomac Economics | | |  |
| Downey, Martin |  | | |  |
| Dreyfus, Mark | MD Energy Consulting | | |  |
| Dumas, John | LCRA | | |  |
| Farhangi, Anoush | Demand Control 2 | | |  |
| Goff, Eric |  | | |  |
| Harvey, Julia | Texas Electric Cooperative | | |  |
| Helton, Bob | ENGIE | | |  |
| Huynh, Thuy | Potomac Economics | | |  |
| Jewell, Michael | Jewell and Associates | | |  |
| Johnson, Anthony | CenterPoint Energy | | |  |
| Jolly, Emily | LCRA | | |  |
| Jones, Liz | Oncor | | |  |
| Kee, David | CPS Energy | | |  |
| Lee, Jim | AEP TX | | |  |
| Loving, Alicia | Austin Energy | | |  |
| Matt, Kevin | NRG | | |  |
| McClellan, Suzi | Good Company and Associates | | |  |
| McKeever, Debbie | Oncor | | |  |
| Mendoza, Albert | Occidental | | |  |
| Musher, Danny | Key Capture Energy | | |  |
| Nguyen, Andy | LCRA | | |  |
| Peters, Patrick | CenterPoint Energy | | |  |
| Powell, Christian | Pedernales Electric Cooperative | | |  |
| Rainwater, Kim | LCRA | | |  |
| Reed, Cyrus | Sierra Club | | |  |
| Reid, Walter | Advanced Power Alliance | | |  |
| Rich, Katie | Golden Spread Electric Cooperative | | |  |
| Richmond, Michele | TCPA | | |  |
| Sams, Bryan | Calpine Corporation | | |  |
| Schwarz, Brad | Sharyland | | |  |
| Sharma Frank, Arushi | Tesla | | |  |
| Shumate, Walt |  | | |  |
| Siddiqi, Shams | Crescent Power | | |  |
| Sithuraj, Murali | Austin Energy | | |  |
| Smith, Caitlin | AB Power Advisors | | |  |
| Smith, Chris | Austin Energy | | |  |
| Stupar, Rob | Invenergy | |  | |
| 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 | |  | |
| *ERCOT Staff* |  | |  | |
| Adadjo, Fred |  | |  | |
| Albracht, Brittney |  | |  | |
| Anderson, Connor |  | |  | |
| Anderson, Troy |  | |  | |
| Ayson, Janice |  | |  | |
| Bezzam, Joseph |  | |  | |
| Bigbee, Nathan |  | |  | |
| Billo, Jeff |  | |  | |
| Boren, Ann |  | |  | |
| Boswell, Bill |  | | |  |
| Bracy, Phil |  | | |  |
| Castillo, Leo |  | | |  |
| Clifton, Suzy |  | | |  |
| Comstock, Read |  | | |  |
| Day, Betty |  | | |  |
| Dinopol, Ohlen |  | | |  |
| Fohn, Douglas |  | | |  |
| Ganjoo, Shalesh |  | | |  |
| Gonzalez, Ino |  | | |  |
| Hobbs, Kristi |  | | |  |
| Hughes, Lindsey |  | | |  |
| Hull, Gibson |  | | |  |
| Jones, Dan |  | | |  |
| Kane, Erika |  | | |  |
| Khodabakhsh, Fred |  | | |  |
| Lasher, Warren |  | | |  |
| Levine, Jon |  | | |  |
| Lofton, Amy |  | | |  |
| Maggio, Dave |  | | |  |
| Mago, Nitika |  | | |  |
| Magarinos, Marcelo |  | | |  |
| Mereness, Matt |  | | |  |
| Morehead, Juliana |  | | |  |
| Orr, Rob |  | | |  |
| Phillips, Cory |  | | |  |
| Ragsdale, Kenneth |  | | |  |
| Roberts, Randy |  | | |  |
| Rosel, Austin |  | | |  |
| Ruane, Mark |  | | |  |
| Sanchez, Daniel |  | | |  |
| Sharma, Sandip |  | | |  |
| Shaw, Pamela |  | | |  |
| Solis, Stephen |  | | |  |
| Stice, Clayton |  | | |  |
| Teixeira, Jay |  | | |  |
| Thompson, Chad |  | | |  |
| Townsend, Aaron |  | | |  |
| Troublefield, Jordan |  | | |  |
| Tucker, Don |  | | |  |
| Warnken, Pete |  | | |  |
| Wattles, Paul |  | | |  |
| Wiley, Leslie |  | | |  |
| Woodfin, Dan |  | | |  |
| Xiao, Hong |  | | |  |
| Zeplin, Rachel |  | | |  |

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

Martha Henson called the September 10, 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)

*July 16, 2020*

*August 13, 2020*

Market Participants reviewed the July 16, 2020 and August 13, 2020 PRS Meeting Minutes. Ms. Henson noted this item could be considered 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 August 26, 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 and reviewed the 2020 release targets and project spending forecasts. Mr. Anderson thanked Market Participants for their efforts in developing the Revision Request Prioritization List, reviewed next steps, and noted that PRS should target new items for 2021/2022 or later due to the high priority Revision Requests already in the project queue. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects and stated that starting in October 2020, Operations and Maintenance (O&M) projects will be included to provide additional transparency.

Urgency Vote(s) (see Key Documents)

*Nodal Protocol Revision Request (NPRR) 1038, BESTF-8 Limited Exemption from Reactive Power Requirements for Certain Energy Storage Resources*

Market Participants reviewed the 8/26/20 Luminant comments and noted a desire to have NPRR1038 considered at the October 13, 2020 Urgent Board of Directors meeting to prevent any potential compliance issues for the impacted Energy Storage Resources (ESRs) when NPRR989, BESTF-1 Energy Storage Resource Technical Requirements language becomes effective. Ms. Henson noted that the request for Urgent Status and to advance NPRR1038 could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*System Change Request (SCR) 811, Addition of Intra-Hour PhotoVoltaic Power Forecast to GTBD Calculation*

Market Participants discussed SCR811 and the 8/31/20 ERCOT comments requesting Urgent Status. Ms. Henson noted the 9/4/20 WMS comments and the 9/9/20 ROS comments to endorse SCR811 as submitted with Urgent status. Market Participants reviewed the Impact Analysis and discussed the appropriate priority and rank for SCR811. Ms. Henson noted that the request for Urgent Status and to advance SCR811 could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

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

*NPRR999, DC Tie Ramp Limitations*

Market Participants reviewed the revised Impact Analysis for NPRR999. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

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

Market Participants reviewed the Impact Analysis and discussed the appropriate priority and rank for NPRR999.

**Shawnee Claiborn-Pinto moved to endorse and forward to TAC the 8/13/20 PRS Report and the Impact Analysis for NPRR1025 with a recommended priority of 2020 and rank of 3015. Andy Nguyen seconded the motion. The motion carried via roll call ballot with five objections from the Independent Power Marketer (IPM) (Morgan Stanley), Independent Retail Electric Provider (IREP) (Direct Energy), and Municipal (3) (DME, Austin Energy, CPS Energy) Market Segments, and three abstentions from the Cooperative (GSEC), Independent Generator (Broad Reach), and Investor Owned Utility (IOU) (Lone Star Transmission) Market Segments.** *(Please see ballot posted with Key Documents.)*

*NPRR1031, Notices for Curtailment of Load*

Market Participants reviewed the 9/3/20 ERCOT comments, and proposed revisions to the 8/28/20 DC Energy comments. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1033, Clarification of Financial Security Interest Payment and Withholding Processes Upon Termination of Market Participant Standard Form Agreement*

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

*NPRR1035, DC Tie Schedules Protected Information Expiry and Posting*

Market Participants reviewed the 8/18/20 ERCOT comments and the Impact Analysis and discussed the appropriate priority and rank for NPRR1035. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1036, Late Payment Enforcement Provisions*

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

*NPRR1037, Correction to the Settlement of Switchable Generation Resources (SWGRs) Instructed to Switch to ERCOT*

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*

*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)*

*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*

*NPRR1034, Frequency-Based Limits on DC Tie Imports or Exports*

PRS took no action on these items.

*NPRR945, Net Metering Requirements*

Katie Rich summarized the 9/2/20 GSEC comments and requested additional time to review the issues with ERCOT and the Public Utility Commission of Texas (PUCT). Bill Barnes summarized the 9/9/20 Reliant comments. Katie Coleman summarized the intent of NPRR945 and the 8/5/20 TIEC comments, noted the extensive discussion of the issues at various stakeholder forums, and expressed support to advance NPRR945 with the 9/9/20 Reliant comments. Nathan Bigbee reviewed the 9/9/20 ERCOT and PUCT Staff comments. Some Market Participants expressed support for the cost distribution concerns presented by GSEC, but stated that the stakeholder process is not the appropriate venue for 4-Coincident Peak (4-CP) discussions.

**Melissa Trevino moved to recommend approval of NPRR945 as amended by the 9/9/20 Reliant comments. Mr. Barnes seconded the motion. The motion carried via roll call ballot with one objection from the Cooperative (GSEC) Market Segment and seven abstentions from the Cooperative (2) (Brazos, STEC), Independent Generator (3) (Luminant, Calpine, Key Capture), IPM (Morgan Stanley), and IREP (Direct Energy) Market Segments.** *(Please see ballot posted with Key Documents.)*

*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*

*NPRR1029, BESTF-6 DC-Coupled Resources*

Matt Mereness presented the Real-Time Co-optimization Task Force (RTCTF) Revision Request summary, reviewed the timeline, and summarized the next steps for NPRRs 1007 through 1014, and 1029. Mr. Mereness noted that ERCOT will request Urgent status and consideration for these items at the November 11, 2020 PRS meeting so that they can remain on a timeline to be considered at the December ERCOT Board meeting.

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

Sandip Sharma summarized NPRR1026. Market Participants and ERCOT Staff discussed potential clarifications. ERCOT Staff requested additional time to offer clarifications for consideration at the October 15, 2020 PRS meeting. PRS took no action on this item.

*NPRR1028, RUC Process Alignment with Resource Limits*

Mr. Barnes summarized NPRR1028, the 8/14/20 ERCOT comments and the 9/8/20 Luminant comments. Ms. Henson noted the 9/4/20 WMS comments. Market Participants discussed the terms “On-Line” and “Off-Line” and offered clarifications to NPRR1028.

**Bob Wittmeyer moved to recommend approval of NPRR1028 as amended by the 9/8/20 Luminant comments as revised by PRS. Clayton Greer seconded the motion. The motion carried via roll call ballot with one abstention from the Consumer (OPUC) Market Segment.** *(Please see ballot posted with Key Documents.)*

*NPRR1032, Consideration of Physical Limits of DC Ties in RUC Optimization and Settlements*

Dave Maggio summarized NPRR1032 and stated that with regard to the cost/benefit analysis requested at the August 13, 2020 PRS meeting, ERCOT reviewed historical data and determined that in the previous year the issue was occurring 2-3% of the time depending on the specific tie, but that it could be critical on the day it occurred. Ms. Henson noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

Review of Revision Request Language (see Key Documents)

*NPRR1039, Replace the Term MIS Public Area with ERCOT Website*

Amy Lofton summarized NPRR1039. Some Market Participants expressed concern that language changes not adversely affect nondiscriminatory provisions and requested tabling NPRR1039 and review of the issues. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1040, Compliance Metrics for Ancillary Service Supply Responsibility*

Emily Jolly summarized NPRR1040 and the 9/9/20 LCRA, STEC, Reliant comments and requested tabling NPRR1040 and review of the issues by the Wholesale Market Subcommittee (WMS). ERCOT Staff recommended the Reliability Operations Subcommittee (ROS) review the metrics in NPRR1040. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1041, Adjust Expiration of Protected Information Status for Wholesale Storage Load (WSL) Data*

Mr. Maggio summarized NPRR1041. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1042, Planned Capacity Adjustment in the Report on Capacity, Demand and Reserves in the ERCOT Region*

Mr. Barnes summarized NPRR1042 and requested tabling it and review of the issues by WMS. Caitlin Smith summarized discussions on the concepts in NPRR1042 at previous Supply Analysis Working Group (SAWG) meetings. Market Participants requested WMS review the issues and provide additional review of mothball scenarios. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*SCR812, Create Intermittent Renewable Generation Integration Report*

Ms. Mago summarized SCR812. Market Participants discussed which information the Intermittent Renewable Generation Integration Report would contain and requested that ERCOT provide a visual representation of the report at the October 15, 2020 PRS meeting. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

Notice of Withdrawal (see Key Documents)

*NPRR966, Changes to Support Reactive Power Coordination Tool*

Ms. Henson noted the withdrawal of NPRR966.

Combined Ballot

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

* **To approve the July 16, 2020 and August 16, 2020 PRS meeting minutes as presented**
* **To grant NPRR1038 Urgent status; to recommend approval of NPRR1038 as submitted; and to forward NPRR1038 and the Impact Analysis to TAC**
* **To grant SCR811 Urgent status; to recommend approval of SCR811 as submitted; and to forward SCR811 and its Impact Analysis to TAC with a recommended priority of 2020 and rank of 3080**
* **To endorse and forward to TAC the 8/13/20 PRS Report and Revised Impact Analysis for NPRR999**
* **To recommend approval of NPRR1031 as amended by the 8/28/20 DC Energy comments as revised by PRS**
* **To endorse and forward to TAC the 8/13/20 PRS Report and the Impact Analysis for NPRR1033**
* **To endorse and forward to TAC the 8/13/20 PRS Report and Impact Analysis for NPRR1035 with a recommended effective date of upon ERCOT Board approval for Section 1.3.1.1 and upon system implementation for Section 1.3.3 with a recommended priority of 2021 and rank of 3230**
* **To endorse and forward to TAC the 8/13/20 PRS Report and Impact Analysis for NPRR1036**
* **To endorse and forward to TAC the 8/13/20 PRS Report and Impact Analysis for NPRR1037**
* **To recommend approval of NPRR1032 as submitted**
* **To table NPRR1039**
* **To table NPRR1040 and refer the issue to ROS and WMS**
* **To recommend approval of NPRR1041 as submitted**
* **To table NPRR1042 and refer the issue to WMS**
* **To recommend approval of SCR812 as submitted**

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

Other Business

*TAC Subcommittee Structural Review*

Ms. Henson encouraged Market Participants to attend the September 17, 2020 TAC and TAC Subcommittee Structural and Procedural Review.

Adjournment

Ms. Henson adjourned the September 10, 2020 PRS meeting at 12:40 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <http://www.ercot.com/calendar/2020/9/10/188390-PRS> unless otherwise noted [↑](#footnote-ref-1)