**APPROVED**

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

**Webex Only**

**Thursday, December 10, 2020 – 9:30 a.m.**

Attendance

*Members:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | | |
| Barnes, Bill | Reliant Energy Retail Services |  | | |
| Claiborn-Pinto, Shawnee | OPUC |  | | |
| Coleman, Diana | CPS Energy |  | | |
| Day, Smith | Denton Municipal Electric |  | | |
| Greer, Clayton | Morgan Stanley |  | | |
| Haley, Ian | Luminant Generation |  | | |
| Heino, Shari | Brazos Electric Cooperative |  | | |
| Henson, Martha | Oncor |  | | |
| Mindham, David | EDP Renewables |  | | |
| Morris, Sandy | Direct Energy |  | | |
| Ross, Richard | AEP Service Corporation | Alt. Rep. for Blake Gross | | |
| Trevino, Melissa | Occidental Chemical |  | | |
| Turner, Lucas | South Texas Electric Cooperative |  | | |
| Varnell, John | Tenaska Power Services |  | | |
|  |  | | |  |
| *Guests:* |  | | |  |
| Abbott, Kristin | PUCT | | |  |
| Ainspan, Malcolm | NRG | | |  |
| Aldridge, Ryan | AB Power Advisors | | |  |
| Ashley, Kristy | Customized Energy Solutions | | |  |
| Benson, Mariah | PUCT | | |  |
| Bivens, Carrie | Potomac Economics | | |  |
| Blakey, Eric | Just Energy | | |  |
| Bruce, Mark | Cratylus Advisors | | |  |
| Bunch, Kevin | EDF Trading | | |  |
| Burke, Tom | Invenergy | | |  |
| Cochran, Seth | DC Energy | | |  |
| Cortez, Sarai | Sharyland | | |  |
| Cook, Tim | CTT | | |  |
| Coultas, Ann | Enel | | |  |
| Daigneault, Ralph | Potomac Economics | | |  |
| Downey, Marty |  | | |  |
| Dreyfus, Mark | MD Energy Consulting | | |  |
| Farhangi, Anoush | Demand Control 2 | | |  |
| Goff, Eric |  | | |  |
| Harvey, Julia | Texas Electric Cooperative | | |  |
| Helton, Bob | ENGIE | | |  |
| Huynh, Thuy | Potomac Economics | | |  |
| Jewell, Michael | Jewell and Associates | | |  |
| Jolly, Emily | LCRA | | |  |
| Kee, David | CPS Energy | | |  |
| Lange, Clif | South Texas Electric Cooperative | | |  |
| Lee, Jim | AEP TX | | |  |
| McKeever, Debbie | Oncor | | |  |
| Musher, Danny | Key Capture Energy | | |  |
| Nagarajan, Ranya | CTT | | |  |
| Nguyen, Andy | LCRA | | |  |
| Pappu, Ajay | Invenergy | | |  |
| Peters, Patrick | CenterPoint Energy | | |  |
| Powell, Christian | Pedernales Electric Cooperative | | |  |
| Rainwater, Kim | LCRA | | |  |
| Reed, Cyrus | Sierra Club | | |  |
| Reedy, Steve | Potomac Economics | | |  |
| Reid, Walter | Advanced Power Alliance | | |  |
| Rich, Katie | Golden Spread Electric Cooperative | | |  |
| Richmond, Michele | TCPA | | |  |
| Sams, Bryan | Calpine Corporation | | |  |
| Scott, Kathy | CenterPoint Energy | | |  |
| Sharma Frank, Arushi | Tesla | | |  |
| Shumate, Walt |  | | |  |
| Siddiqi, Shams | Crescent Power | | |  |
| Simpson, Lori | Exelon | | |  |
| Sithuraj, Murali | Austin Energy | | |  |
| Smith, Caitlin | AB Power Advisors | | |  |
| Smith, Christopher | Austin Energy | | |  |
| Smith, Mark | Nucor | | |  |
| Surendran, Resmi | Shell Energy | |  | |
| Tran, Diane | TIEC | |  | |
| Velasquez, Ivan | Oncor | |  | |
| Villasana, Kristi | NBU | |  | |
| Wittmeyer, Bob | Broad Reach Power | |  | |
| *ERCOT Staff* |  | |  | |
| Albracht, Brittney |  | |  | |
| Anderson, Connor |  | |  | |
| Anderson, Troy |  | |  | |
| Ayson, Janice |  | |  | |
| Bigbee, Nathan |  | |  | |
| Billo, Jeff |  | |  | |
| Boren, Ann |  | |  | |
| Boswell, Bill |  | | |  |
| Bracy, Phil |  | | |  |
| Cheng, Yunzhi |  | | |  |
| Clifton, Suzy |  | | |  |
| Dinopol, Ohlen |  | | |  |
| Fohn, Douglas |  | | |  |
| Gonzalez, Ino |  | | |  |
| Hobbs, Kristi |  | | |  |
| House, Donald |  | | |  |
| Huang, Fred |  | | |  |
| Hull, Gibson |  | | |  |
| Jones, Dan |  | | |  |
| Kane, Erika |  | | |  |
| Lasher, Warren |  | | |  |
| Maggio, Dave |  | | |  |
| Mereness, Matt |  | | |  |
| Miller, Megan |  | | |  |
| Morehead, Juliana |  | | |  |
| Moreno, Alfredo |  | | |  |
| Phillips, Cory |  | | |  |
| Ragsdale, Kenneth |  | | |  |
| Roberts, Randy |  | | |  |
| Rosel, Austin |  | | |  |
| Ruane, Mark |  | | |  |
| Schmall, John |  | | |  |
| Sharma, Sandip |  | | |  |
| Shaw, Pamela |  | | |  |
| Stice, Clayton |  | | |  |
| Teixeira, Jay |  | | |  |
| Thompson, Chad |  | | |  |
| Troublefield, Jordan |  | | |  |
| Tucker, Don |  | | |  |
| Warnken, Pete |  | | |  |
| Wattles, Paul |  | | |  |
| Wiley, Leslie |  | | |  |
| Young, Matthew |  | | |  |
| Zeplin, Rachel |  | | |  |

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

Martha Henson called the December 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)

*November 11*

Market Participants reviewed November 11, 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 November 17, 2020 TAC meeting and the December 14, 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 and reviewed the 2020 and 2021 release targets noting impacts from the Market Management System (MMS)/Outage Scheduler (OS) Tech Refresh delay, and 2020 project spending forecasts. Mr. Anderson provided an update on the October 2020 start for two Battery Energy Storage (BES) and Distributed Generation Resource (DGR) Pre-Passport projects, Combo Model and DGR/Distribution Energy Storage Resources (DESRs) implementation strategies, and stated the target go-live dates are still in development. Mr. Anderson noted that ERCOT will be reviewing future revision requests for impacts to Passport projects and is considering potential changes to the Impact Analysis to provide greater transparency to the market. Mr. Anderson presented the priority and rank options for Revision Requests requiring projects.

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

*Nodal Protocol Revision Request (NPRR) 994, Clarify Generator Interconnection Neutral Project Classification*

Market Participants discussed the intent of NPRR994 and acknowledged the potential for future considerations of smaller economic projects, which may be proposed in a separate NPRR.

**Ian Haley moved to endorse and forward to TAC the 11/11/20 PRS Report and the Impact Analysis for NPRR994. Bryan Sams seconded the motion. The motion carried via roll call vote with two objections from the Independent Generator (Invenergy) and Independent Power Marketer (IPM) (Morgan Stanley) Market Segments and one abstentions from the Consumer (Sierra Club) Market Segment.** *(Please see ballot posted with Key Documents.)*

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

Market Participants noted the 12/7/20 ERCOT comments requesting an additional month to develop the Impact Analysis for NPRR995. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

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

Market Participants noted the 12/9/20 ERCOT comments requesting an additional month to develop the Impact Analysis for NPRR1034. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1048, Clarification on NPRR978 Short-Term Adequacy Reports*

*NPRR1049, Management of DC Tie Load Zone Modifications*

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

*NPRR1050, Change to the Summer Commercial Operations Date Deadline for Including Planned Generation Capacity in Reports on the Capacity, Demand and Reserves in the ERCOT Region*

Market Participants reviewed the Impact Analysis for NPRR1050. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1051, Removal of the Price Floor Applied to Day-Ahead Settlement Point Prices*

Market Participants reviewed the Impact Analysis and discussed the appropriate priority and rank for NPRR1051. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1052, Load Zone Pricing for Settlement Only Storage Prior to NPRR995 Implementation*

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*

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

*NPRR1023, Change to CRR Repossession Process*

*NPRR1045, Transmission Operator Definition and Designation*

PRS took no action on these items.

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

Market Participants reviewed NPRR1024, the 11/9/20 ERCOT comments and the 12/3/20 WMS comments. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1040, Compliance Metrics for Ancillary Service Supply Responsibility*

Market Participants reviewed NPRR1040, the 11/6/20 WMS comments, the 12/3/20 Luminant comments, and the 12/4/20 ROS comments. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1044, Enhancement of SSR Mitigation Requirement*

Market Participants reviewed NPRR1044 and the 11/23/20 ERCOT comments. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

Review of Revision Request Language (see Key Documents)

*NPRR1053, BESTF-9 Exemption from Ancillary Service Supply Compliance Requirements for Energy Storage Resources Affected by EEA Level 3 Charging Suspensions*

Sandip Sharma summarized NPRR1053. Market Participants reviewed the 12/8/20 ERCOT comments. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1054, Removal of Oklaunion Exemption Language*

Market Participants reviewed NPRR1054 and the 12/8/20 ERCOT comments and noted needed administrative edits. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1056, Market Impact Generic Transmission Constraint (GTC) Notification*

Tom Burke summarized NPRR1056. Market Participants discussed the issues and requested NPRR1056 be reviewed at the Reliability and Operations Subcommittee (ROS) and Wholesale Market Subcommittee (WMS) for ERCOT Critical Energy Infrastructure Information (ECEII) exemption concerns, the 5000 megawatts (MW) threshold regarding Generic Transmission Constraints (GTCs), and correct calculation formulas. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1057, Modification to Real-Time Hub Price Formulas for Fully De-Energized Hubs*

Dave Maggio summarized NPRR1057. Market Participants discussed the calculations and requested further review of the issues by WMS. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

*NPRR1058, Resource Offer Modernization for Real-Time Co-Optimization*

Mr. Haley summarized NPRR1058. Market Participants requested review of the issues by WMS. Ms. Henson noted this item could be considered for inclusion in the [Combined Ballot](#Combined_Ballot).

Combined Ballot

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

* **To approve the November 11, 2020 Meeting Minutes as presented**
* **To table NPRR995**
* **To table NPRR1034**
* **To endorse and forward to TAC the 11/11/20 PRS Report and Impact Analysis for NPRR1048**
* **To endorse and forward to TAC the 11/11/20 PRS Report and Impact Analysis for NPRR1049**
* **To endorse and forward to TAC the 11/11/20 PRS Report and Impact Analysis for NPRR1050**
* **To endorse and forward to TAC the 11/11/20 PRS Report and Impact Analysis for NPRR1051 with a recommended priority of 2021 and rank of 2705**
* **To endorse and forward to TAC the 11/11/20 PRS Report and Impact Analysis for NPRR1052**
* **To recommend approval of NPRR1024 as amended by the 11/9/20 ERCOT comments**
* **To recommend approval of NPRR1040 as amended by the 12/3/20 Luminant comments**
* **To recommend approval of NPRR1044 as amended by the 11/23/20 ERCOT comments**
* **To recommend approval of NPRR1053 as amended by the 12/8/20 ERCOT comments**
* **To recommend approval of NPRR1054 as amended by the 12/8/20 ERCOT comments**
* **To table NPRR1056 and refer the issue to ROS and WMS**
* **To table NPRR1057 and refer the issue to WMS**
* **To table NPRR1058 and refer the issue to WMS**

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

Notice of Withdrawal

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

Ms. Henson noted the withdrawal of NPRR1017.

Other Business

Clayton Stice announced the January 13, 2021 DGR Workshop XI, reviewed workshop topics and encouraged Market Participants participation.

Adjournment

Ms. Henson adjourned the December 10, 2020 PRS meeting at 11:10 a.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at http://www.ercot.com/calendar/2020/12/10/188404-PRS unless otherwise noted [↑](#footnote-ref-1)