**APPROVED**

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

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

**Thursday, September 15, 2016 – 9:30am**

Attendance

*Members:*

|  |  |  |
| --- | --- | --- |
| Allen, Thresa | Iberdrola Renewables | Via Teleconference |
| Barnes, Bill | Reliant Energy Retail Services |  |
| Coleman, Diana | OPUC |  |
| Frazier, Amanda | Luminant |  |
| Greer, Clayton | Morgan Stanley |  |
| Heino, Shari | Brazos Electric Power Cooperative |  |
| Kee, David | CPS Energy | Alt. Rep. for D. Detelich |
| Lyons, Chris | Exelon |  |
| Peters, Patrick | CenterPoint Energy |  |
| Sandidge, Clint | Noble Americas |  |
| Trevino, Melissa | Occidental Chemical |  |
| Varnell, John | Tenaska Power Services |  |
| Wittmeyer, Bob | Denton Municipal Electric | Alt. Rep. for Smith Day |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Guests:* | |  | |  |
| Ahn, Sirius | | Oncor | | Via Teleconference |
| Ainspan, Malcom | | NRG | | Via Teleconference |
| Alford, Anthony | | CenterPoint Energy | | Via Teleconference |
| Bryant, Mark | | PUCT | | Via Teleconference |
| Bunch, Kevin | | EDF Trading | | Via Teleconference |
| Burke, Tom | | GSEC | |  |
| Checkley, Jim | | Cross Texas | |  |
| Chhajed, Pushkar | | Luminant | | Via Teleconference |
| Coleman, Katie | | TIEC | |  |
| Cripe, Ramsey | | Schneider Engineering | | Via Teleconference |
| Downey, Marty | | Viridity | |  |
| English, Barksdale | | Austin Energy | |  |
| Garza, Beth | | Potomac Economics | |  |
| Goff, Eric | | Citigroup Energy | |  |
| Graham, Greg | | Texas Reliability Entity | | Via Teleconference |
| Gross, Blake | | AEPSC | |  |
| Hellinghausen, Bill | | EDF Trading | | Via Teleconference |
| Helton, Bob | | GDF Suez | |  |
| Hoatson, Tom | | LSPower | | Via Teleconference |
| Horstman, Gabriel | | OATI | | Via Teleconference |
| Jones, Liz | | Oncor | |  |
| Jones, Randy | | Calpine | |  |
| Kimbrough, Todd | | GT | |  |
| Lange, Clif | | STEC | |  |
| Looney, Sherry | | Luminant | | Via Teleconference |
| McKeever, Debbie | | Oncor | | Via Teleconference |
| McMillin, Michael | | TIEC | |  |
| Morris, Sandy | | Direct Energy | |  |
| Nease, Nelson | | NHNPC | | Via Teleconference |
| Reedy, Steve | | Potomac Economics | |  |
| Reid, Walter | | Wind Coalition | | Via Teleconference |
| Robertson, Jennifer | | LCRA | |  |
| Sams, Bryan | | NRG | |  |
| Scout, Doug | | OATI | | Via Teleconference |
| Scott, Kathy | | CenterPoint Energy | | Via Teleconference |
| Siddiqi, Shams | | Crescent Power | |  |
| Thurnher, Greg | | Shell Energy | |  |
| Trenary, Michelle | | Tenaska Power Services | | Via Teleconference |
| Turner, Lucas | | STEC | | Via Teleconference |
| Walker, Mark | | NRG | | Via Teleconference |
| Wall, Perin | | CenterPoint Energy | | Via Teleconference |
| Watson, Mark | | S & P Global Platts | | Via Teleconference |
| White, Lauri | | AEPSC | | Via Teleconference |
| Whittle, Brandon | | Megawatt Analytics | |  |
| Whitworth, Doug | | Texas Reliability Entity | | Via Teleconference |
| Woitt, Wesley | | CenterPoint Energy | | Via Teleconference |
| Woodruff, Taylor | | Oncor | |  |
| Zake, Diana | | Lone Star Transmission | |  |
|  |  | |  | |
| *ERCOT Staff* |  | |  | |
| Albracht, Brittney |  | |  | |
| Anderson, Troy |  | |  | |
| Billo, Jeff |  | |  | |
| Bivens, Carrie |  | |  | |
| Boren, Ann | |  | |  | |
| Bracy, Phil | |  | | Via Teleconference | |
| Butterfield, Lindsay | |  | |  | |
| Clifton, Suzy | |  | |  | |
| Coon, Patrick | |  | | Via Teleconference | |
| Day, Betty | |  | | Via Teleconference | |
| Fleming, Lauren | |  | |  | |
| Gonzalez, Ino | |  | |  | |
| Gnanam, Prabhu | |  | |  | |
| Hobbs, Kristi | |  | |  | |
| Holt, Blake | |  | | Via Teleconference | |
| Jin, Julie | |  | | Via Teleconference | |
| Landry, Kelly | |  | |  | |
| Levine, Jon | |  | | Via Teleconference | |
| Mago, Nitika | |  | |  | |
| Moreno, Alfredo | |  | | Via Teleconference | |
| Pabbisetty, Suresh | |  | | Via Teleconference | |
| Phillips, Cory | |  | |  | |
| Reed, Bobby | |  | |  | |
| Roberts, Randy | |  | | Via Teleconference | |
| Sharma, Sandip | |  | |  | |
| Spells, Vanessa | |  | |  | |
| Thurman, Kathryn | |  | |  | |
| Thompson, Chad | |  | | Via Teleconference | |
| Townsend, Aaron | |  | | Via Teleconference | |
| Spells, Vanessa | |  | |  | |
| Zeplin, Rachel | |  | |  | |

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

Amanda Frazier called the September 15, 2016 PRS meeting to order at 9:30 a.m.

Antitrust Admonition

Ms. Frazier directed attention to the Antitrust Admonition, which was displayed.

Agenda Review

Ms. Frazier reviewed proposed changes to the agenda order.

Approval of Minutes (see Key Documents)[[1]](#footnote-1)

*August 11, 2016*

**Chris Lyons moved to approve the August 11, 2016 PRS meeting minutes as submitted. Patrick Peters seconded the motion. The motion carried unanimously**

Technical Advisory Committee (TAC) and Board Report

Ms. Frazier related discussion at the annual TAC/Subcommittee Structural and Procedural Review, and conveyed the request that consideration be given to correct categorization of revision requests as they apply to ERCOT Strategic Goals.

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 changes to the 2016 release targets and spending forecast; and presented priority and rank options for revision requests with impacts. Mr. Anderson presented options for prioritizing revision requests with projects that are upgrades rather than market enhancements, and noted that aside from PRS review of the Impact Analysis and consensus to remove an upgrade project from the market funding track, the revision request approval process would remain the same, with both TAC and the ERCOT Board of Directors considering the Impact Analysis. Ms. Frazier expressed support for an informal process and offered that excluding upgrade projects from the market funding track could lend more transparency when system changes affect the market. Ms. Frazier noted that all projects would continue to be prioritized on the PPL and reflected in the ERCOT budget.

Review PRS Reports, Impact Analyses, and Prioritization

*Nodal Protocol Revision Request (NPRR) 755, Data Agent-Only Qualified Scheduling Entity (QSE) Registration*

Market Participants discussed the 5/10/16 ERCOT comments and details of the Impact Analysis for

NPRR755, and Nodal Operating Guide Revision Request (NOGRR) 154, Alignment with NPRR755 and Requirements for ERCOT WAN Installation and Exchange of Resource-Specific XML Data.

**Eric Goff moved to endorse and forward to TAC the 5/12/16 PRS Report as amended by the 5/10/16 ERCOT comments and the Impact Analysis for NPRR755 with a recommended priority of 2016 and rank of 1559. Tom Burke seconded the motion. The motion carried with one objection from the Independent Generator Market Segment (Exelon) and one abstention from the Independent Power Marketers (IPM) (Tenaska) Market Segment.**

*NPRR769, Alignment with VCMRR013, Clarifications to Verifiable Cost Appeals Process*

Market Participants discussed the 9/1/16 ERCOT and 9/6/16 Luminant comments to NPRR769, and offered clarifications specify that data was submitted in connection with a verifiable cost appeal.

**Bill Barnes moved to endorse and forward to TAC the 8/11/16 PRS Report as amended by the 9/16/16 Luminant comments and as revised by PRS, and Impact Analysis for NPRR769. Mr. Burke seconded the motion. The motion carried unanimously.**

*NPRR775, Enhanced Implementation of Limits for Fast Responding Regulation Service*

**Clayton Greer moved to endorse and forward to TAC the 8/11/16 PRS Report and the Impact Analysis for NPRR775 with a recommended priority of 2017 and a rank of 1830. Mr. Burke seconded the motion. The motion carried unanimously.**

*NPRR789, Publish All Mid-Term Load Forecast Results*

**Bob Wittmeyer moved to endorse and forward to TAC the 8/11/16 PRS Report and the Impact Analysis for NPRR789 with a recommended priority of 2017 and a rank of 1840. Mr. Greer seconded the motion. The motion carried unanimously.**

Review of Pending Project Priorities (see Key Documents)

Mr. Anderson presented project starts planned for September and October 2016.

Revision Requests Tabled at PRS (see Key Documents)

*NPRR562, Subsynchronous Resonance*

*NPRR697, Disclosure of Protected Information for Research and Coordination Purposes*

*NPRR759, Segmentation of the Total New Capacity Estimate in the ERCOT CDR*

*NPRR768, Revisions to Real-Time On-Line Reliability Deployment Price Adder Categories*

*NPRR776, Voltage Set Point Communication*

*NPRR777, ERCOT-directed Dispatch of Price-Responsive Distributed Generation*

*System Change Request (SCR) 785, Update RTL calculation to include Real-Time Reserve Price Adder based components*

PRS took no action on these items.

*NPRR772, Clarification of Process for Transmission Outages Related to a Service Disconnection Request for a Generation Resource*

Market Participants reviewed both the 8/4/16 Reliability and Operations Subcommittee (ROS) comments and the 8/10/16 GSEC comments and discussed the merits of the proposed language changes in the original NPRR772 submission versus the 8/10/16 GSEC comments. Taylor Woodruff stated that the 8/10/16 GSEC comments alter the authority granted to Transmission and/or Distribution Service Providers (TDSPs) by the Public Utility Commission of Texas (PUCT) regarding Disconnect for Non-Pay (DNP).

**Mr. Burke moved to recommend approval of NPRR772 as amended by the 8/10/16 Golden Spread Electric Cooperative comments. Clif Lange seconded the motion.**

**Mr. Goff moved to table NPRR772. Mr. Greer seconded the motion. The motion carried via roll call vote with five objections from the Investor Owned Utility (IOU) (2) (CenterPoint Energy, AEPSC) and Municipal (3) (Denton Municipal Electric, CPS Energy, Austin Energy) Market Segments.** *(Please see ballot posted with NPRR772 Key Documents.)[[2]](#footnote-2)*

Mr. Goff requested ERCOT Staff provide an analysis of how they would review outage requests including planned outages, and requested Market Participants provide information on the legal implications of the process changes in NPRR772.

*NPRR783, Revision of Network Operations Model Consistency Audit Requirement*

**Mr. Barnes moved to recommend approval of NPRR783 as submitted. Mr. Goff seconded the motion. All Market Segments were present for the vote. The motion carried unanimously.**

*NPRR788, RMR Study Modifications – URGENT*

**Ms. Frazier moved to recommend approval of NPRR788 as amended by the 9/14/16 Luminant comments and to forward to TAC. Melissa Trevino seconded the motion.** Market Participants discussed the 9/14/16 Luminant comments, the functional meanings and applications of Shift Factor and unloading impact as they relate to potential Reliability Must-Run (RMR) scenarios, concerns with loading transmission facilities above 100 percent of their emergency rating, and the applicability of North American Electric Reliability Corporation (NERC) Reliability Standards related to transmission planning studies to the ERCOT RMR studies. Market Participants also offered clarifications to the proposed revision language.

**Mr. Barnes moved to amend the motion to recommend approval of NPRR788 as amended by the 9/14/16 Luminant comments and as revised by PRS; and to forward to TAC. Mr. Greer seconded the motion to amend. The motion to amend carried with five objections from the IOU (2) (CenterPoint Energy, AEPSC) and Municipal (3) (Denton Municipal Electric, CPS Energy, Austin Energy) Market Segments.**

Market Participants further discussed the appropriate unloading impact.

**Mr. Goff moved to amended the new main motion to recommend approval of NPRR788 as amended by the 9/14/16 Luminant comments and as revised by PRS, and to modify the three percent unloading impact to the Transmission Facility(ies) to five percent; and to forward to TAC. Mr. Greer seconded the motion. The motion to amend carried with three objections from the IOU (Luminant, CenterPoint Energy, AEPSC) and one abstention from the Consumer (Occidental) Market Segments.**

**The motion to recommend approval of NPRR788 as amended by the 9/14/16 Luminant comments and as revised by PRS, and to forward to TAC carried via roll call vote with five objections from the Consumer (Occidental), Independent Generator (Exelon), and (IOU) (3) (Luminant, CenterPoint Energy, AEPSC) Market Segments, and one abstention from the IOU (Lone Star) Market Segment*.*** *(Please see ballot posted with NPRR788 Key Documents.)[[3]](#footnote-3)*

*NPRR790, Addition of Phase Angle Limits to the Network Operations Model*

**Mr. Greer moved to recommend approval of NPRR790 as amended by the 9/6/16 CenterPoint Energy comments. Mr. Barnes seconded the motion. The motion carried unanimously.**

*NPRR791, Clarifications to IEL, MCE and Aggregate Amount Owed by Breaching Party*

Market Participants clarified the definition for Operating Day.

**Mr. Barnes moved to recommend approval of NPRR791 as revised by PRS. Mr. Wittmeyer seconded the motion. The motion carried unanimously.**

*NPRR792, Changing Special Protection System (SPS) to Remedial Action Scheme (RAS)*

Market Participants discussed the 9/1/16 ERCOT comments and 9/8/16 ROS comments. Market Participants expressed concern with the proposed language and ERCOT’s ability to model due to system limitations. Ms. Frazier stated ERCOT requested additional time to review NPRR792. PRS took no action on this item.

*NPRR793, Clarifications to RMR Reliability Unit Commitment (RUC) and Other RMR Cleanups*

**Mr. Barnes moved to grant NPRR793 Urgent status. Mr. Greer seconded the motion. The motion carried unanimously.**

Market Participants discussed the treatment of long-term service agreements within the evaluation of Eligible Costs.

**Mr. Greer moved to recommend approval of NPRR793 as amended by the 8/25/16 ERCOT comments and to forward the Impact Analysis to TAC. Mr. Barnes seconded the motion. The motion carried unanimously.**

*NPRR795, Provisions for Refunds of Capital Contributions Made in Connection with an RMR Agreement – URGENT*

Market Participants reviewed the 9/8/16 Wholesale Market Subcommittee (WMS) and 9/12/16 Reliant comments; discussed ERCOT’s practices regarding capitalization; requested ERCOT file comments to clarify language associated with the submission of the Section 22 Attachment H, Notification of Change of Generation Resource Designation, at the conclusion of an RMR Agreement; and recommended NPRR795 take effect upon ERCOT Board approval.

**Mr. Barnes moved to recommend approval of NPRR795 as amended by the 9/12/16 Reliant comments with a recommended effective date of October 12, 2016; and to forward the Impact Analysis to TAC. Ms. Frazier seconded the motion. The motion carried unanimously.**

Review of Revision Request Language (see Key Documents)

*NPRR794, Relocation of Unregistered DG Reporting Requirements*

**Mr. Peters moved to table NPRR794 and refer the issue to the Commercial Operations Subcommittee (COPS). Mr. Varnell seconded the motion. The motion carried unanimously.**

*NPRR796, Extended Character Set Clean Up*

Market Participants reviewed the 9/13/16 Retail Market Subcommittee (RMS) Comments.

**Mr. Barnes moved to table NPRR796 and refer the issue to RMS. Mr. Peters seconded the motion. The motion carried unanimously.**

*NPRR797, Actual Load by Forecast Zone Report and Display*

**Mr. Wittmeyer moved to recommend approval of NPRR797 as submitted. Mr. Barnes seconded the motion. The motion carried unanimously.**

*NPRR798, Additional CRR Accounts Request*

Market Participants discussed that additional review should be given to proposed language that would impact the Congestion Revenue Right (CRR) bid limit for each Counter-Party, and requested WMS review NPRR798.

**Mr. Barnes moved to table NPRR798 and refer the issue to WMS. Mr. Greer seconded the motion. The motion carried unanimously.**

*NPRR799, Updates to Outages of Transmission Facilities*

Market Participants discussed the proposed language, expressed concern with the one hour timeline, and requested ROS and WMS review NPRR799.

**Mr. Peters moved to table NPRR799 and refer the issue to ROS and WMS. Mr. Gross seconded the motion. The motion carried unanimously.**

*NPRR800, Revisions to Credit Exposure Calculations to Use Electricity Futures Market Prices*

Market Participants discussed NPRR800 and requested additional review by the Credit Work Group (Credit WG).

**Mr. Barnes moved to table NPRR800 and refer the issue to the Credit WG. Mr. Goff seconded the motion. The motion carried unanimously.**

*NPRR801, Non-Controllable Load Resource MW in PRC*

**Mr. Barnes moved to recommend approval of NPRR801 as submitted. Mr. Greer seconded the motion. The motion carried unanimously.**

Other Business

There was no other business.

Adjournment

Ms. Frazier adjourned the September 15, 2016 PRS meeting at 1:03 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at <http://www.ercot.com/calendar/2016/9/15/76964-PRS> unless otherwise noted [↑](#footnote-ref-1)
2. NPRR772 <http://www.ercot..com/mktrules/issues/NPRR772#keydoc>s [↑](#footnote-ref-2)
3. NPRR788 <http://www.ercot.com/mktrules/issues/NPRR788#keydocs> [↑](#footnote-ref-3)