



**GENERAL SESSION MINUTES OF THE BOARD OF DIRECTORS MEETING OF
ELECTRIC RELIABILITY COUNCIL OF TEXAS, INC.**

Electric Reliability Council of Texas, Inc.
7620 Metro Center Drive, Room 206
Austin, Texas 78744
June 13, 2017 at 9:00 a.m.

Pursuant to notice duly given, the meeting of the Board of Directors (Board) of Electric Reliability Council of Texas, Inc. (ERCOT), convened on the above-referenced date.

Meeting Attendance:

Board Members:

Director	Affiliation	Segment
Baer, Tonya	Office of Public Utility Counsel	Consumer – Residential
Cramton, Peter	Unaffiliated	Unaffiliated Director
Crowell, Craven (Chairman)	Unaffiliated	Unaffiliated Director
Durland, Jack	Valero Services, Inc.	Consumer – Industrial
Emery, Keith	Tenaska Power Services Co.	Independent Power Marketer
Fehrenbach, Nick	City of Dallas	Consumer – Commercial
Jones, Randy	Calpine Corporation	Independent Generator
Karnei, Clifton	Brazos Electric Power Cooperative, Inc.	Cooperative
Magness, Bill	ERCOT	President and Chief Executive Officer (CEO)
Pfirrmann, Karl	Unaffiliated	Unaffiliated Director
Shellman, Carolyn	CPS Energy	Municipal
Smith, Wade	American Electric Power Service Corporation	Investor-Owned Utility
Walsh, Judy (Vice Chair)	Unaffiliated	Unaffiliated Director
Werner, John	Source Power & Gas, LLC	Independent Retail Electric Provider

Segment Alternates, Officers and Guests:

Billo, Jeff	ERCOT Senior Manager of Transmission Planning
Bluntzer, Rick	Just Energy Texas, LP (Independent Retail Electric Provider Segment Alternate)



Brandt, Adrienne	CPS Energy, Technical Advisory Committee (TAC) Chair
Coleman, Chris	ERCOT Senior Meteorologist
Daniels, Steve	ERCOT Vice President of Application Services and IT Operations
Day, Betty	ERCOT Vice President of Governance, Risk and Compliance and Chief Compliance Officer
Dreyer, Jerry	ERCOT Senior Vice President and Chief Information Officer
Gage, Theresa	ERCOT Vice President of External Affairs and Corporate Communications
Garza, Beth	Potomac Economics, ERCOT Independent Market Monitor (IMM), Director
Gnanam, Prabhu	ERCOT Manager of System Development
Gresham, Kevin	E.ON North America, LLC (Independent Generator Segment Alternate)
Helton, Bob	Dynegy Inc., TAC Vice Chair
Huang, Shun-Hsien (Fred)	ERCOT Manager of Dynamic Studies
Kezar, Mike	South Texas Electric Cooperative, Inc. (Cooperative Segment Alternate)
Leady, Vickie	ERCOT Assistant General Counsel and Assistant Corporate Secretary
Levine, Jonathan	ERCOT Corporate Counsel
Mele, Cheryl	ERCOT Senior Vice President and Chief Operating Officer
Ögelman, Kenan	ERCOT Vice President of Commercial Operations
Patton, David	Potomac Economics, ERCOT IMM, President
Petterson, Michael	ERCOT Vice President and Chief Financial Officer
Rickerson, Woody	ERCOT Vice President of Grid Planning and Operations
Seely, Chad V.	ERCOT Vice President, General Counsel and Corporate Secretary
Woodfin, Dan	ERCOT Senior Director of Systems Operations

Call General Session to Order and Announce Proxies (Agenda Item 1)

Craven Crowell, Board Chairman, determined that a quorum was present and called the Board General Session meeting to order at approximately 9:00 a.m. He noted the Antitrust Admonition and announced that there were no proxies. Chairman Crowell addressed the following Agenda Items in the order below.

Consent Agenda; Unopposed Nodal Protocol Revision Requests (NPRRs) and Planning Guide Revision Requests (PGRRs) Recommended by Technical Advisory Committee (TAC) for Approval (Agenda Items 2, 2.1 and 2.1.1 - 2.1.9)

Chairman Crowell entertained a motion for the approval of the Consent Agenda as follows:

- NPRR562, Subsynchronous Resonance;
- NPRR796, Extended Character Set Clean Up;
- NPRR820, Clarification of Aggregate Generation Resource (AGR) Definition;
- NPRR824, Alignment of EEA Level 3 with NERC Reliability Standards EOP-011-1 and BAL-001-2;



- NPRR827, Disallow PTP Obligation Bid Award where Clearing Price exceeds Bid Price by \$0.25/MW per hour – URGENT;
- NPRR830, Revision of 4-Coincident Peak Methodology – URGENT;
- PGRR056, Alignment with NPRR562, Subsynchronous Resonance;
- PGRR057, Responsibilities for Performing Geomagnetic Disturbance (GMD) Vulnerability Assessments; and
- PGRR058, Clarification of Generation to be Included in the Planning Models.

Randy Jones moved to approve the Consent Agenda as presented. Karl Pfirrmann seconded the motion. The motion passed by unanimous voice vote with no abstentions.

April 4, 2017 General Session Meeting Minutes (Agenda Item 3)

Chairman Crowell entertained a motion to approve the April 4, 2017 General Session Meeting Minutes (Minutes).

Keith Emery moved to approve the Minutes as presented. Nick Fehrenbach seconded the motion. The motion passed by unanimous voice vote with two abstentions (Clifton Karnei and Karl Pfirrmann).

Chief Executive Officer (CEO) Presentation; CEO Update; Operations Report (Agenda Items 4, 4.1 and 4.2)

Bill Magness presented the CEO Update and Operations Report. Mr. Magness recognized Shun-Hsien (Fred) Huang for his work on NPRR562 and subsynchronous resonance and the overall effort Mr. Huang contributes to ERCOT and the market. There were no questions or comments from Board members.

2017 Summer Overview (Agenda Item 5)

Chairman Crowell invited Dan Woodfin and Chris Coleman to present the 2017 Summer Overview.

2017 Summer Operations (Agenda Item 5.1)

Mr. Woodfin presented the 2017 Summer Operations update. There were no questions or comments from Board members.

2017 Summer Weather Outlook (Agenda Item 5.2)

Mr. Coleman presented the 2017 Summer Weather Outlook and responded to questions and comments from Board members.

Addressing Subsynchronous Resonance – NPRR562 Overview and Series Capacitors Go-Live Update (Agenda Item 6)

Woody Rickerson and Mr. Huang presented Addressing Subsynchronous Resonance – NPRR562 Overview and Series Capacitors. Mr. Jones praised Mr. Huang on the longstanding collaboration efforts with stakeholders involved in this process, which he acknowledged as one of the most noteworthy accomplishments of ERCOT staff. Chairman Crowell thanked Mr. Huang for his work on this matter.



Independent Market Monitor (IMM) Report (Agenda Item 7)

Chairman Crowell welcomed David Patton, President of Potomac Economics, to the meeting. Dr. Patton presented the IMM Report and responded to questions and comments from Board members.

Break

Chairman Crowell recessed the General Session for break at approximately 11:01 a.m. and reconvened the General Session at approximately 11:18 a.m.

TAC Report; Non-Unanimous NPRR Recommended by TAC for Approval; NPRR831, Inclusion of Private Use Networks in Load Zone Price Calculations – URGENT (Agenda Items 8, 8.1 and 8.1.1)

Adrienne Brandt presented NPRR831, Inclusion of Private Use Networks in Load Zone Price Calculations – URGENT, as recommended by TAC for Board approval. Following brief comments from Board members, Chairman Crowell entertained a motion for the approval of NPRR831.

Mr. Karnei moved to approve NPRR831 as recommended by TAC in the May 25, 2017 TAC Report. Mr. Jones seconded the motion. The motion passed by unanimous voice vote with no abstentions.

Ms. Brandt presented the TAC Report. There were no questions or comments from Board members.

Far West Texas Regional Planning Group (RPG) Project (Agenda Item 9)

Chairman Crowell reported that Wade Smith of American Electric Power Service Corporation would not be participating in the discussion or voting on this agenda item due to his affiliation with American Electric Power Service Corporation.

Prabhu Gnanam presented the Far West Texas RPG Project, which ERCOT staff independently reviewed and recommended improvements known as Option 2, and which TAC voted to endorse, based on NERC and ERCOT planning reliability criteria, and responded to questions and comments from Board members.

Mr. Magness moved to endorse the need for the Far West Texas RPG Project, which ERCOT staff has independently reviewed and recommended improvements known as Option 2, and which TAC has voted to endorse, based on NERC and ERCOT planning reliability criteria. Mr. Jones seconded the motion. The motion passed by unanimous voice vote with one abstention (Mr. Smith).

Lubbock Power and Light Impact Study (Agenda Item 10)

Jeff Billo presented the Lubbock Power and Light Impact Study and responded to questions and comments from Board members. Chairman Crowell acknowledged David McCalla, Director of Electric Utilities, Lubbock Power and Light, who was in attendance.



Rayburn Country Electric Cooperative Integration Study (Agenda Item 11)

Mr. Billo presented the Rayburn Country Electric Cooperative Integration Study and responded to questions and comments from Board members.

Finance and Audit (F&A) Committee Report (Agenda Item 12)

Judy Walsh, F&A Committee Chair, reported that the F&A Committee met the prior day and highlighted items discussed at the F&A meeting. There were no questions or comments from Board members.

2018-2019 Budget and Fee (Agenda Item 12.1)

Vice Chair Walsh moved to approve the 2018-2019 Budget and Fee as recommended by the F&A Committee. Mr. Fehrenbach seconded the motion. The motion passed by unanimous voice vote with no abstentions.

Human Resources and Governance (HR&G) Committee Report (Agenda Item 13)

Mr. Pfirrmann, HR&G Committee Chairman, reported that the HR&G Committee met the prior day and highlighted items discussed at the HR&G Committee meeting. There were no questions or comments from Board members.

2018 ERCOT Board Meeting and Annual Meeting Schedule (Agenda Item 13.1)

Mr. Pfirrmann presented the proposed 2018 ERCOT Board Meeting and Annual Meeting Schedule. He encouraged Board members to review the meeting schedule and note any conflicts as the Board will vote on this item at its August 8, 2017 meeting. There were no questions or comments from Board members.

Nominating Committee Report (Agenda Item 14)

Chairman Crowell, who also serves as Nominating Committee Chairman, reported that the Nominating Committee met the prior day and highlighted items discussed at the Nominating Committee meeting. There were no questions or comments from Board members.

Other Business (Agenda Item 15)

No other business was discussed at this time.

Executive Session; Vote on Matters from Executive Session; Adjournment (Agenda Items 16 and 17)

Chairman Crowell announced that no voting items from Executive Session were expected; accordingly, he would adjourn the meeting immediately upon conclusion of Executive Session. Chairman Crowell recessed General Session at approximately 11:59 a.m. to convene Executive Session at approximately 12:14 p.m.

There were no voting items from Executive Session.

Chairman Crowell adjourned the meeting upon the conclusion of Executive Session at approximately 1:37 p.m.



Board materials and presentations from the meeting are available on ERCOT's website at <http://ercot.com/committees/board/index.html>.


Vickie G. Leady
Assistant Corporate Secretary