



**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
October 17, 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
Gresham, Kevin	E.ON North America, LLC	Independent Generator Segment Alternate
Karnei, Clifton	Brazos Electric Power Cooperative, Inc.	Cooperative
Magness, Bill	ERCOT	President and Chief Executive Officer (CEO)
Pfirmsmann, Karl	Unaffiliated	Unaffiliated Director
Shellman, Carolyn	CPS Energy	Municipal
Smith, Wade	American Electric Power Service Corporation	Investor-Owned Utility
Walker, DeAnn	Public Utility Commission of Texas (PUCT)	Chairman (<i>Not Present for Agenda Items 15 – 16</i>)
Walsh, Judy (Vice Chair)	Unaffiliated	Unaffiliated Director
Werner, John	Source Power & Gas, LLC	Independent Retail Electric Provider



Segment Alternates, Officers and Guests:

Brooks, Daniel	EPRI, Director of Grid Operations and Planning
Cochran, Seth	DC Energy Texas, LLC (Independent Power Marketer Segment Alternate)
Coleman, Chris	ERCOT Senior Meteorologist
Daniels, Steve	ERCOT Vice President 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
Helton, Bob	Dynegy, Inc., Technical Advisory Committee (TAC) Vice Chair
Hobbs, Kristi	ERCOT Director of Enterprise Risk Management and Strategic Analysis
Kezar, Mike	South Texas Electric Cooperative, Inc. (Cooperative Segment Alternate)
Leady, Vickie	ERCOT Assistant General Counsel and Assistant Corporate Secretary
Levine, Jonathan	ERCOT Senior Corporate Counsel
Maggio, Dave	ERCOT Manager of Market Analysis and Validation
Marquez, Brandy Marty	PUCT Commissioner
Mele, Cheryl	ERCOT Senior Vice President and Chief Operating Officer
Mercado, Kenny	CenterPoint Energy, Inc. (Investor-Owned Utility Segment Alternate)
Ögelman, Kenan	ERCOT Vice President of Commercial Operations
Petterson, Michael	ERCOT Vice President and Chief Financial Officer
Rickerson, Woody	ERCOT Vice President of Grid Planning and Operations
Rosel, Austin	ERCOT Manager of Settlement Services
Seely, Chad V.	ERCOT Vice President, General Counsel and Corporate Secretary
Sharma, Sandip	ERCOT Manager of Operations Planning
Talavera, Judith	AEP Texas, President
Williams, Diane M.	ERCOT Vice President of Human Resources
Woodfin, Dan	ERCOT Senior Director of System Operations

Call General Session to Order, Announce Proxies and Segment Alternates (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 Kevin Gresham, Independent Generator Segment Alternate, was attending in Randy Jones' absence, who retired from Calpine Corporation earlier in the month and, thus, who was no longer eligible to continue serving on the Board.



Chairman Crowell recognized DeAnn Walker, Chairman of the PUCT, and welcomed her to her first meeting. Chairman Walker called an Open Meeting of the Commission in order to consider matters which had been duly posted with the Texas Secretary of State for October 17, 2017.

Chairman Crowell addressed the following Agenda Items in the order below.

Consent Agenda: Unopposed Nodal Protocol Revision Requests (NPRRs) and System Change Request (SCR) Recommended by Technical Advisory Committee (TAC) for Approval; Boundary Threshold for the Load Review Process (Agenda Items 2, 2.1, 2.1.1 - 2.1.4 and 2.2)

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

- NPRR768, Revisions to Real-Time On-Line Reliability Deployment Price Adder Categories;
- NPRR821, Elimination of the CRR Deration Process for Resource Node to Hub or Load Zone CRRs;
- NPRR840, Implementation of Infeasible Ancillary Service Protocol Revisions;
- SCR791, Correction of 60-day SCED GRD Disclosure Report; and
- Boundary Threshold for the Load Review Process.

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

August 8, 2017 General Session Meeting Minutes (Agenda Item 3)

Chairman Crowell entertained a motion to approve the August 8, 2017 General Session Meeting Minutes (Minutes).

Clifton Karnei moved to approve the Minutes as presented. Peter Cramton seconded the motion. The motion passed by unanimous voice vote with no abstentions.

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

Bill Magness welcomed Chairman Walker to the meeting. He presented the CEO Update and responded to questions and comments from Board members.

Mr. Magness reported recent leadership changes. He reported that former TAC Chair, Adrienne Brandt, is now working with Chairman Walker at the PUCT. He conveyed his appreciation to both Ms. Brandt and Chairman Walker for their service to ERCOT in their prior roles. Chairman Crowell echoed his appreciation of Ms. Brandt's service as TAC Chair. In addition, Mr. Magness reported that TAC Vice Chair Bob Helton would be acting as TAC Chair for the remainder of 2017.

Mr. Magness recognized Austin Rosel, ERCOT Manager of Settlement Services, who helped develop the ERCOT Data Science Group. Mr. Magness explained that this group, which launched in August, collaborates to learn new and emerging data science technologies and



techniques. Mr. Magness commended Mr. Rosel and the ERCOT Data Science Group Steering Committee for their outstanding work initiatives.

Mr. Magness presented the Operations Report. There were no questions or comments from Board members.

Summer 2017 and Hurricane Recovery (Agenda Item 5)

Chairman Crowell invited Dan Woodfin, Dave Maggio, Judith Talavera and Kenny Mercado to provide presentations on Summer 2017 and Hurricane Recovery.

Summer 2017 Operational and Market Review (Agenda Item 5.1)

Mr. Woodfin and Mr. Maggio presented the Summer 2017 Operational and Market Review and responded to questions and comments from Board members.

Hurricane Harvey Overview (Agenda Item 5.2)

Mr. Woodfin presented the Hurricane Harvey Overview. There were no questions or comments from Board members.

Hurricane Harvey Restoration and Recovery Update (Agenda Item 5.3)

Mr. Magness acknowledged Mr. Woodfin, Jimmy Hartmann and each of their teams, who worked vigorously preparing for Hurricane Harvey. He commended them on collaborating together and successfully managing ERCOT systems during the turbulent weather.

Mr. Magness introduced Ms. Talavera and Mr. Mercado and invited them to present the Hurricane Harvey Restoration and Recovery Update.

AEP Texas Hurricane Harvey Restoration (Agenda Item 5.3.1)

Ms. Talavera presented the AEP Texas Hurricane Harvey Restoration. There were no questions or comments from Board members.

CenterPoint Energy's Response to Hurricane Harvey (Agenda Item 5.3.2)

Kenny Mercado presented CenterPoint Energy's Response to Hurricane Harvey and responded to questions and comments from Board members.

Summer Review and Fall-Winter Weather Outlook (Agenda Item 6)

Chris Coleman presented the Summer Review and Fall-Winter Weather Outlook. There were no questions or comments from Board members.

Break

Chairman Crowell recessed General Session for break at approximately 10:44 a.m. and reconvened General Session at approximately 11:07 a.m.

Electric Power Research Institute (EPRI) (Agenda Item 7)

Mr. Magness presented a brief overview of the various ERCOT projects with EPRI and invited Sandip Sharma of ERCOT and Daniel Brooks of EPRI to present additional details.



ERCOT Projects with EPRI (Agenda Item 7.1)

Mr. Sharma presented ERCOT Projects with EPRI, and he and Mr. Woodfin responded to questions and comments from Board members.

EPRI Presentation (Agenda Item 7.2)

Mr. Brooks presented the EPRI Presentation and responded to questions and comments from Board members.

Independent Market Monitor (IMM) Report (Agenda Item 8)

Beth Garza presented the IMM Report and responded to questions and comments from Board members.

TAC Report; Non-Unanimous NPRRs Recommended by TAC for Approval; NPRR817, Create a Panhandle Hub; NPRR829, Incorporate Real-Time Non-Modeled Telemetered Net Generation by Load Zone into the Estimate of RTL; NPRR836, Incorporation of Other Binding Document Forms into Protocol Section 23 (Agenda Items 9, 9.1 and 9.1.1 - 9.1.3)

Mr. Helton presented NPRR817, Create a Panhandle Hub, as recommended by TAC for Board approval. Following comments from Board members, Chairman Crowell entertained a motion for the approval of NPRR817. **Mr. Durland moved to approve NPRR817 as recommended by TAC in the September 28, 2017 TAC Report. Keith Emery seconded the motion. The motion passed by voice vote with one opposed (Carolyn Shellman) and no abstentions.**

Mr. Helton presented NPRR829, Incorporate Real-Time Non-Modeled Telemetered Net Generation by Load Zone into the Estimate of RTL, as recommended by TAC for Board approval. **Mr. Karnei moved to approve NPRR829 as recommended by TAC in the September 28, 2017 TAC Report. Mr. Cramton seconded the motion. The motion passed by voice vote with one opposed (Carolyn Shellman) and no abstentions.**

Mr. Helton presented NPRR836, Incorporation of Other Binding Document Forms into Protocol Section 23, as recommended by TAC for Board approval. Following comments from Board members, Chairman Crowell entertained a motion for the approval of NPRR836. **Mr. Karnei moved to approve NPRR836 as recommended by TAC in the August 24, 2017 TAC Report. Mr. Cramton seconded the motion. The motion passed by unanimous voice vote with no abstentions.**

Mr. Helton presented the TAC Report. There were no questions or comments from Board members.

Finance and Audit (F&A) Committee Report (Agenda Item 10)

Board Vice Chair Judy Walsh, who also serves as 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.



Human Resources and Governance (HR&G) Committee Report (Agenda Item 11)

Karl 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.

Nominating Committee Report (Agenda Item 12)

Chairman Crowell, who also serves as Nominating Committee Chairman, reported that the Nominating Committee met the prior day and voted unanimously to select Terrence J. "Terry" Bulger as an Unaffiliated Director candidate to fill the vacancy created by the resignation of Jorge Bermudez, and to select Peter Cramton as an Unaffiliated Director candidate for a second three-year term, each for presentation to ERCOT's Corporate Members and the PUCT. He congratulated Mr. Cramton on his nomination to the Board for a second term. There were no questions or comments from Board members.

Determination of Non-Affiliation of Certain ERCOT Members under the ERCOT Bylaws for Purposes of ERCOT Market Segment and Voting (Agenda Item 13)

Chad Seely presented the Determination of Non-Affiliation of Certain ERCOT Members under the ERCOT Bylaws for Purposes of ERCOT Market Segment and Voting and responded to questions and comments from Board members.

Wade Smith moved to approve the Determination of Non-Affiliation of Certain ERCOT Members under the ERCOT Bylaws for Purposes of ERCOT Market Segment and Voting as presented. Mr. Cramton seconded the motion. The motion passed by unanimous voice vote with no abstentions.

Other Business (Agenda Item 14)

No other business was discussed at this time.

Executive Session

Chairman Crowell recessed General Session at approximately 12:45 p.m. and convened Executive Session at approximately 1:00 p.m. Chairman Crowell reconvened General Session at approximately 2:14 p.m.

Vote on Matters from Executive Session (Agenda Item 15)

Chairman Crowell entertained a motion on one matter discussed during Executive Session.

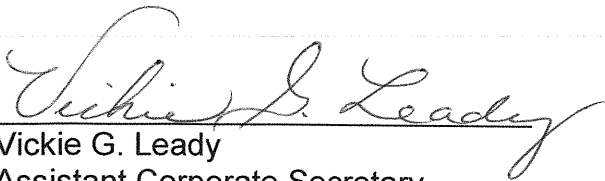
Vice Chair Walsh moved to approve the contract matter as discussed during Executive Session under Agenda Item ES 3.1.1. Mr. Karnei seconded the motion. The motion passed by unanimous voice vote with no abstentions.

Adjournment (Agenda Item 16)

Chairman Crowell adjourned the meeting at approximately 2:15 p.m.



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


Vickie G. Leady
Assistant Corporate Secretary