**APPROVED**

**Minutes of the Technical Advisory Committee (TAC) Meeting**

**ERCOT Austin – 8000 Metropolis Drive (Building E), Suite 100– Austin, Texas 78744**

**Wednesday, November 20, 2024 – 11:00 a.m.**

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| *TAC Representatives:* |  |  |
| Barnes, Bill | Reliant Energy Retail Services (Reliant) |  |
| Blakey, Eric | Pedernales Electric Cooperative (PEC) |  |
| Bonskowski, Ned | Luminant Generation (Luminant) | Via Teleconference |
| Carpenter, Jeremy | Tenaska Power Services (Tenaska) |   |
| Dreyfus, Mark | City of Eastland |  |
| Fehrenbach, Nick | City of Dallas |  |
| Franklin, Russell | Garland Power and Light (GP&L) |  |
| Gaytan, Jose | Denton Municipal Electric (DME) |  |
| Haley, Ian | Morgan Stanley  |  |
| Harpole, Jay | APG&E |  |
| Helton, Bob | ENGIE North America (ENGIE) |  |
| Hendrix, Chris | Demand Control 2 |  |
| Holt, Blake | Lower Colorado River Authority (LCRA) |   |
| Jolly, Emily | LCRA | Alt. Rep. for Blake Holt  |
| Kee, David | CPS Energy |  |
| Kent, Garret | CMC Steel Texas (CMC Steel) | Via Teleconference |
| Loving, Alicia | Austin Energy |  |
| Martin, Collin | Oncor Electric Delivery (Oncor) |  |
| Mercado, David | CenterPoint Energy |  |
| Nix, Keith | Texas-New Mexico Power Company (TNMP) | Via Teleconference |
| Packard, John | South Texas Electric Cooperative (STEC) |   |
| Pokharel, Nabaraj | Office of Public Utility Counsel (OPUC) |   |
| Ross, Richard | AEP Service Corporation (AEPSC) |  |
| Sams, Bryan | Calpine Corporation (Calpine) |  |
| Schmitt, Jennifer | Rhythm Ops |   |
| Schubert, Eric | Lyondell Chemical |   |
| Smith, Caitlin | Jupiter Power |  |
| Surendran, Resmi | Shell Energy North America (SENA) |  |
| Wise, Mike | Golden Spread Electric Cooperative (GSEC) | Via Teleconference |
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The following proxies were assigned:

* Eric Goff to Nabaraj Pokharel
* David Kee to Jose Gaytan

*Guests:*

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| --- | --- | --- |
| Aldridge, Ryan | AB Power Advisors |  |
| Ashley, Kristy | Customized Energy Solutions (CES) | Via Teleconference |
| Barefield, Palmer | Zero Emission Grid | Via Teleconference |
| Basaran, Harika | Public Utility Commission of Texas (PUCT) | Via Teleconference |
| Beard, Mason | Hunt Energy | Via Teleconference |
| Beckman, Kara | NextEra Energy | Via Teleconference |
| Benson, Mariah | Texas Public Power Association (TPPA) |  |
| Bernier, Benjamin | Mercuria | Via Teleconference |
| Bertin, Suzanne |  | Via Teleconference |
| Bevill, Rob | TNMP |  |
| Block, Laurie | L Block Consulting, LLC |  |
| Boggs, Callie | Goff Policy  | Via Teleconference |
| Boisseau, Heather | LCRA | Via Teleconference |
| Briggs, Lindsay | EPE Consulting | Via Teleconference |
| Bruce, Mark | Pattern Energy | Via Teleconference |
| Bulzak, Jacob | PUCT | Via Teleconference |
| Burkhead, Brett | Calpine | Via Teleconference |
| Cochran, Seth | Vitol |  |
| Cockrell, Justin | DC Energy | Via Teleconference |
| Coleman, Diana | CPS Energy |  |
| Cook, Kristin | Southern Power | Via Teleconference |
| Cripe, Ramsey | SEnergy | Via Teleconference |
| Deshmukh, KD | Leeward Energy | Via Teleconference |
| Dharme, Neeraja | EDFT | Via Teleconference |
| Donohoo, Ken | OwlERC, LLC | Via Teleconference |
| English, Barksdale | PUCT |  |
| Flores, Bill | ERCOT Board of Directors (Board) Chairman |  |
| Frederick, Jennifer | AEP | Via Teleconference |
| Giordano, Miriam | Enel | Via Teleconference |
| Headrick, Bridget | CES | Via Teleconference |
| Heith, Mattie | Calpine | Via Teleconference |
| Henson, Martha | Oncor |  |
| Hering, David | BTU | Via Teleconference |
| Hickman, Adam | AEP | Via Teleconference |
| Hjaltman, Courtney | PUCT | Via Teleconference |
| Hubbard, John Russ | Texas Industrial Energy Consumers (TIEC) | Via Teleconference |
| Hughes, Lindsey | ENGIE | Via Teleconference |
| Jha, Monica | Vistra | Via Teleconference |
| Johnson, Natalie | Enel | Via Teleconference |
| Jones, Dan |  | Via Teleconference |
| Jones, Liz | Oncor |  |
| Kaepplinger, Ashley | Enel | Via Teleconference |
| Keller, Jenna | PUCT | Via Teleconference |
| Kimbrough, Mandy | NRG | Via Teleconference |
| Lasher, Warren | Lasher Energy  | Via Teleconference |
| Lee, Jim | CNP |  |
| Leverett, Travis | WETT, LLC | Via Teleconference |
| Levine, Jon | Baker Botts | Via Teleconference |
| Lewis, Coleman |  | Via Teleconference |
| Lotter, Eric | GridMonitor | Via Teleconference |
| Macias, Jesse | AEP Texas | Via Teleconference |
| Mack, Natalia | Repsol | Via Teleconference |
| McClellan, Suzi | Good Company Associates | Via Teleconference |
| McDonald, Jeff | Potomac Economics |  |
| McKeever, Debbie | Oncor | Via Teleconference |
| McMurray, Creighton | Spencer Fare |  |
| McMurray, Mark | BTU | Via Teleconference |
| Mehrotra, Simran | Light Source | Via Teleconference |
| Miller, Alex | EDFR | Via Teleconference |
| Minnix, Kyle | Brazos | Via Teleconference |
| Morris, Sandy | WETT | Via Teleconference |
| Moser, Jesse | NextEra Energy | Via Teleconference |
| Neel, Evan | Lancium | Via Teleconference |
| Nguyen, Andy | Constellation | Via Teleconference |
| Nicholson, Tyler | PUCT | Via Teleconference |
| Orr, Rob | Lone Star Transmission |  |
| Pearson, Kelsey | Longhorn Power | Via Teleconference |
| Pietrucha, Doug | Texas Advanced Energy Business Alliance (TAEBA) | Via Teleconference |
| Price, Mark | DC Energy | Via Teleconference |
| Rasmussen, Erin | AEP | Via Teleconference |
| Ratliff, Shannon |  | Via Teleconference |
| Reimers, Andrew | Potomac Economics | Via Teleconference |
| Reinisch, Michael | Potomac Economics | Via Teleconference |
| Rich, Katie | Luminant | Via Teleconference |
| Richmond, Michele | Texas Competitive Power Advocates (TCPA) | Via Teleconference |
| Sablosky, Maximillian | Qcells | Via Teleconference |
| Safko, Trevor | LCRA |  |
| Sager, Brenden | Austin Energy |  |
| Scott, Kathy | CNP |  |
| Sersen, Juliana | Baker Botts | Via Teleconference |
| Smith, Mark | CMC Steel Texas | Via Teleconference |
| Snyder, Bill | AEP  |  |
| Sun, Charles | Auroraer | Via Teleconference |
| Teng, Shuye | Constellation Energy | Via Teleconference |
| Thomas, Shane | SENA | Via Teleconference |
| Townsend, Paul | TCPA | Via Teleconference |
| True, Roy | ACES | Via Teleconference |
| Van Winkle, Kim | PUCT | Via Teleconference |
| Velasquez, Ivan | Oncor | Via Teleconference |
| Wall, Perrin | CNP | Via Teleconference |
| Walker, Floyd | PUCT | Via Teleconference |
| Watson, Markham  |  | Via Teleconference |
| Wilson, Joe Dan | GSEC | Via Teleconference |
| Withrow, David | AEPSC |  |
| Wittmeyer, Bob | Longhorn Power | Via Teleconference |
| Zang, Hailing | TC Energy | Via Teleconference |
| Zito, David | Gabel and Associates | Via Teleconference |
|  |  |  |
| *ERCOT Staff:* |  |  |
| Albracht, Brittney |  | Via Teleconference |
| Anderson, Troy |  |  |
| Arth, Matt |  | Via Teleconference |
| Azeredo, Chris |  | Via Teleconference |
| Benavides, Marcos |  |  |
| Billo, Jeff |  | Via Teleconference |
| Blevins, Bill |  | Via Teleconference |
| Boren, Ann |  |  |
| Castillo, Leo |  | Via Teleconference |
| Cheng, Yong |  | Via Teleconference |
| Clifton, Suzy  |  |  |
| Collins, Keith |  |  |
| Cosway, Chris |  | Via Teleconference |
| Dashnyam, Sanchir |  | Via Teleconference |
| Du, Pengwei |  | Via Teleconference |
| Drake, Gordon |  |  |
| Dwyer, Davida |  | Via Teleconference |
| Garcia, Freddy |  | Via Teleconference |
| Garza, Christian |  | Via Teleconference |
| Golen, Robert |  | Via Teleconference |
| González, Ino |  |  |
| Gnanam, Prabhu |  |  |
| Gross, Katherine |  |  |
| Hobbs, Kristi |  | Via Teleconference |
| Holland, Caleb |  | Via Teleconference |
| Huang, Fred |  |  |
| King, Ryan |  | Via Teleconference |
| Madam, Vamsi |  | Via Teleconference |
| Mago, Nitika |  | Via Teleconference |
| Maggio, Dave |  | Via Teleconference |
| Matlock, Robert |  | Via Teleconference |
| Mereness, Matt |  |  |
| Miller, Megan |  | Via Teleconference |
| Moreno, Alfredo |  | Via Teleconference |
| Navarro Catan, Manuel |  | Via Teleconference |
| Phillips, Cory |  |  |
| Rainwater, Kim |  | Via Teleconference |
| Ramasubbu, Priya |  | Via Teleconference |
| Rosel, Austin |  | Via Teleconference |
| Rossero, Nicole |  | Via Teleconference |
| Sheets, Jarod |  | Via Teleconference |
| Snitman, Julie |  | Via Teleconference |
| Springer, Agee |  | Via Teleconference |
| Troublefield, Jordan |  | Via Teleconference |
| Wasik-Gutierrez, Erin |  | Via Teleconference |
| Yan, Ping |  | Via Teleconference |
| Zerwas, Rebecca |  |  |

*Unless otherwise indicated, all Market Segments participated in the votes.*

Caitlin Smith called the November 20, 2024 meeting to order at 11:00 a.m.

Antitrust Admonition

Ms. Smith directed attention to the displayed Antitrust Admonition and noted that the Antitrust Guidelines are available for review on the ERCOT website.

Stakeholder Process and Communication Discussion

Ms. Smith reminded participants of the improvements to the TAC Report to the ERCOT Board (Board) and the communication of issues to the Board as discussed at the October 30, 2024 TAC meeting. Ms. Smith introduced Board Chairman, Bill Flores. Mr. Flores conveyed the Board’s appreciation for stakeholder input, engagement with ERCOT activities, and process improvements.

ERCOT Board/Stakeholder Engagement Update (see Key Documents)[[1]](#footnote-2)

Rebecca Zerwas reviewed opportunities for expanded stakeholder engagement in 2025 and encouraged participants to respond to the Participation Survey.

Approval of TAC Meeting Minutes (see Key Documents)

*October 30, 2024*

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

Review of Revision Request Summary/ERCOT Market Impact Statement/Opinions (See Key Documents)

Ann Boren presented a Revision Request Summary, including the ERCOT Market Impact Statements, ERCOT Opinions, Credit Finance Sub Group (CFSG) Review, budgetary impacts, and reasons for revisions for Revision Requests to be considered by TAC. Jeff McDonald reviewed the Independent Market Monitor (IMM) Opinions for Revision Requests to be considered by TAC.

Protocol Revision Subcommittee (PRS) Report (see Key Documents)

*Nodal Protocol Revision Request (NPRR) 1239, Access to Market Information (Waive Notice)*

*NPRR1240, Access to Transmission Planning Information (Waive Notice)*

*NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era (Waive Notice)*

*NPRR1247, Incorporation of Congestion Cost Savings Test in Economic Evaluation of Transmission Projects – URGENT (Waive Notice)*

*NPRR1254, Modeling Deadline for Initial Submission of Resource Registration Data (Waive Notice)*

Ms. Smith noted that due to the timeline between the November PRS and TAC meetings, a successful motion to waive notice would be required for TAC to take action on NPRRs 1239, 1240, 1246, 1247, and 1254.

**Bob Helton moved to waive notice for NPRRs 1239, 1240, 1246, 1247, and 1254. David Kee seconded the motion. The motion carried unanimously.** *(Please see ballot posted with Key Documents.)*

*NPRR1239*

*NPRR1240*

*NPRR1246*

*NPRR1254*

Diana Coleman presented NPRRs 1239, 1240, 1246, and 1254 for TAC consideration. In response to Market Participant concerns, Agee Springer clarified that ERCOT was amendable to a March 1, 2025 effective date for NPRR1254. Ms. Smith noted these items could be considered in the [Combined Ballot](#Combined_Ballot).

*NPRR1247, Incorporation of Congestion Cost Savings Test in Economic Evaluation of Transmission Projects – URGENT (Waive Notice)*

Ms. Coleman presented NPRR1247 for TAC consideration. Ned Bonskowski reviewed the 11/15/24 Luminant comments to NPRR1247. Prabhu Gnanam reviewed the 11/19/24 ERCOT comments to NPRR1247. Barksdale English reminded participants of Public Utility Commission of Texas (PUCT) Staff concerns noted at the September 19, 2024 TAC meeting, expressed appreciation for stakeholders and ERCOT Staff efforts for their extensive review of the issues and potential solutions, and encouraged stakeholders to act timely in consideration of forthcoming legislative activities. Some Market Participants reiterated concerns regarding incomplete congestion process information, planning model details, supporting data and analysis, and white paper language; noted possible negative effects of expedited stakeholder review; and requested additional discussion regarding relevant large load issues. Other Market Participants acknowledged time constraints, emphasized a need to comply with the established PUCT rule and legislature, and welcomed continued evolution of the process through submission of future Revision Requests.

**Richard Ross moved to recommend approval of NPRR1247 as recommended by PRS in the 11/14/24 PRS Report. Jose Gaytan seconded the motion.**

**Mr. Bonskowski moved to table NPRR1247. Bryan Sams seconded the motion. The motion failed with seventeen objections from the Consumer (4) (CMC Steel, Lyondell Chemical, City of Eastland, City of Dallas), Cooperative (4) (GSEC, LCRA, PEC, STEC), Independent Retail Electric Provider IIREP) (1) (APG&E), Investor Owned Utility (IOU) (4) (TNMP, CNP, Oncor, AEPSC) and Municipal (4) (GP&L, DME, CPS Energy, Austin Energy) Market Segments and one abstention from the Independent Power Marketer (IPM) (Morgan Stanley) Market Segment.** *(Please see ballot posted with Key Documents.)*

**The original motion to recommend approval of NPRR1247 as recommended by PRS in the 11/14/24 PRS Report carried with three objections from the Independent Generator (2) (Calpine, Luminant) and IPM (SENA) Market Segments and one abstention from the IREP (Reliant) Market Segment.** *(Please see ballot posted with Key Documents.)*

Revision Requests Tabled at TAC (See Key Documents)

*NPRR1180, Inclusion of Forecasted Load in Planning Analyses*

Nabaraj Pokharel reviewed the 11/18/24 and 11/19/24 OPUC comments to NPRR1180. Martha Henson reviewed the 11/18/24 comments to NPRR1180; requested stakeholders advance NPRR1180 and PGRR107, Related to NPRR1180, Inclusion of Forecasted Load in Planning Analyses, and reiterated Oncor’s planned efforts to work with stakeholders for additional transparency/standardization.

**Mr. Ross moved to approve the NPRR1180/PGRR107 Combined Ballot as follows:**

* **To recommend approval of NPRR1180 as recommended by PRS in the 10/17/24 PRS Report and the 10/28/24 Revised Impact Analysis**
* **To recommend approval of PGRR107 as recommended by ROS in the 11/7/24 ROS Report**

**Mr. Helton seconded the motion The motion carried with 4 abstentions from the Consumer (2) (Residential Consumer, OPUC), Cooperative (GSEC) and IPM (SENA) Market Segments**. *(Please see ballot posted with Key Documents.)*

*NPRR1190, High Dispatch Limit Override Provision for Increased Load Serving Entity Costs*

Ms. Smith reminded participants of the Board action to remand NPRR1190 to TAC and the discussion at the October 30, 2024 TAC meeting and noted ongoing stakeholder discussions. Bill Barnes expressed a desire to explore solutions to the potential concern that High Dispatch Limit (HDL) overrides become a dominant component of the ERCOT market, including developing some type of annual Settlement trigger for review of the language when HDL overrides exceed a specified amount and requested to review the issues at the Wholesale Market Subcommittee (WMS). Market Participants expressed support for WMS review. Ms. Smith referred the issue to WMS and requested interested participants provide comments to NPRR1190 in advance of the December 4, 2024 and January 8, 2025 WMS meetings. Austin Rosel encouraged participants to include ERCOT Staff in drafting comments.

*Nodal Operating Guide Revision Request (NOGRR) 264, Related to NPRR1235, Dispatchable Reliability Reserve Service as a Stand-Alone Ancillary Service*

TAC took no action on this item.

*NOGRR266, Related to NPRR1239, Access to Market Information*

*NOGRR267, Related to NPRR1240, Access to Transmission Planning Information*

*Planning Guide Revision Request (PGRR) 116, Related to NPRR1240, Access to Transmission Planning Information*

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

*Other Binding Document Revision Request (OBDRR) 052, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era*

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

Retail Market Subcommittee (RMS) Report

Debbie McKeever noted that RMS did not meet in November and expressed her appreciation for ERCOT Staff, Transmission and/or Distribution Service Providers (TDSPs), and IREPs for the successful Texas SET Version 5.0 migration.

Reliability and Operations Subcommittee (ROS) Report (see Key Documents)

Katie Rich reviewed ROS activities and presented Revision Requests for TAC consideration.

*PGRR107, Related to NPRR1180, Inclusion of Forecasted Load in Planning Analyses*

This item was considered above with NPRR1180.

*PGRR118, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era*

*NOGRR268, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era*

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

WMS Report (see Key Documents)

Mr. Blakey reviewed WMS activities and noted that three proposed solutions for the Congestion Revenue Right (CRR) Auction Revenue Distribution (CARD) issue would be considered at the December 4, 2024 WMS meeting.

Credit Finance Sub Group (CFSG) Report (See Key Documents)

*Approval of CFSG Membership*

Brenden Sager reviewed CFSG activities, including the Estimated Aggregate Liability (EAL) Change Proposals, and noted that these proposals will be considered at the December 19, 2024 CFSG meeting. Mr. Sager presented the following designated CFSG member for TAC approval:

* Don Mee, Habitat Energy, IPM

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

Real-Time Co-optimization plus Batteries Task Force (RTCBTF) Report (see Key Documents)

Matt Mereness reviewed RTCBTF activities; highlighted key issue discussions and updates, including Market Readiness, policy parameters and timeline for a single NPRR, and IMM proposal for the Ancillary Services Demand Curve; and presented the Real-Time Co-optimization plus Batteries (RTC+B) Next Steps. Andrew Reimers reviewed concepts for the Blended Ancillary Services Demand Curve approach that he anticipates will improve price formation, stated that the IMM has received stakeholder comments for this potential solution, and encouraged participants to attend the December 11, 2024 RTCBTF meeting to further discuss the issues. In response to participant questions on the Revision Request timeline, Keith Collins stated that implementing RTC+B in December 2025 is paramount and the schedule is very tight. Mr. English reiterated that potential improvements and enhancements are encouraged, however, a solution exists in the protocols, and that go-live is December 5, 2025.

ERCOT Reports (see Key Documents)

*Segment Membership Discussion*

Katherine Gross reminded participants of the Membership Segment composition discussion at the September 19, 2024 TAC meeting, presented analysis on historical segment composition change, and reviewed the stakeholder process and timeline for future potential changes. Participants requested ERCOT Staff host a workshop to discuss the Segment composition issues and benefits of ERCOT membership.

*Price Correction - Nov. 1, 2024 - Incomplete Weekly Database Load*

Gordon Drake summarized the data transfer process issue which impacted the Real-Time Market (RTM), noted that ERCOT issued a Market Notice on November 8, 2024 and November 12, 2024, and stated that potential price corrections will be considered at the Reliability and Market Committee meeting on December 2, 2024, and the Board meeting on December 3, 2024.

*Oncor Delaware Basin Stages 3 and 4 RPG Project – EIR (Possible Vote)*

Prabhu Gnanam presented the ERCOT independent review of the Oncor Delaware Basin Stages 3 and 4

Regional Planning Group (RPG) project and recommendation to address the reliability needs in the Culberson, Loving, Reeves, and Ward Counties in the Far West Weather Zone. Ms. Smith noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

*Maximum Daily Resource Planned Outage Capacity (MDRPOC) Update and Outage Performance Review*

Fred Huang reviewed the 2023 Outage Performance review, noting that the current methodology provided sufficient outage window to support planned outages. Mr. Huang stated that the updated Long-Term Load Forecast (LTLF) showed significant increase in projected load growth that could significantly reduce the MDRPOC to support the planned outage requests based on the existing methodology; presented analysis for the risk based MDRPOC concept, and presented Next Steps, including ERCOT plans to revise the methodology using a probabilistic based approach by Q2 2025. Mr. Huang encouraged participants to provide feedback on quantifying the risk and on the concept.

*Large Load Interconnection Queue Status Update*

Julie Snitman presented the Large Load interconnection report and responded to participant questions and concerns. Ms. Smith requested ERCOT Staff provide the monthly report to TAC.

Other Business

Ms. Smith noted that Collin Martin would not seek leadership opportunities for 2025 and thanked him for his leadership at TAC.

Combined Ballot

**Blake Holt moved to approve the Combined Ballot as follows:**

* **To approve the October 30, 2024 TAC meeting minutes as presented**
* **To recommend approval of NPRR1239 as recommended by PRS in the 11/14/24 PRS Report**
* **To recommend approval of NPRR1240 as recommended by PRS in the 11/14/24 PRS Report**
* **To recommend approval of NPRR1246 as recommended by PRS in the 11/14/24 PRS Report**
* **To recommend approval of NPRR1254 as recommended by PRS in the 11/14/24 PRS Report with a recommended effective date of March 1, 2025**
* **To recommend approval of NOGRR266 as recommended by ROS in the 10/3/24 ROS Report**
* **To recommend approval of NOGRR267 as recommended by ROS in the 10/3/24 ROS Report**
* **To recommend approval of PGRR116 as recommended by ROS in the 10/30/24 ROS Report**
* **To recommend approval of OBDRR052 as amended by the 10/14/24 ERCOT comments; and the 7/31/24 Impact Analysis**
* **To recommend approval of PGRR116 as recommended by ROS in the 10/30/24 ROS Report**
* **To recommend approval of PGRR118 as recommended by ROS in the 11/7/24 ROS Report**
* **To recommend approval of NOGRR268 as recommended by ROS in the 11/7/24 ROS Report**
* **Approval of CFSG Membership - To approve the CFSG membership addition as presented (Don Meek, Habitat Energy, IPM)**
* **To endorse the Oncor Delaware Basin Stages 3 and 4 Project to address reliability needs in the Culberson, Loving, Reeves, and Ward Counties in the Far West Weather Zone**

**Eric Blakey seconded the motion.** **The motion carried** **unanimously.** *(Please see ballot posted with Key Documents.)*

Ms. Smith adjourned the November 20, 2024 TAC meeting at 3:12 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at:

<https://www.ercot.com/calendar/10302024-TAC-Meeting-_-Webex> [↑](#footnote-ref-2)