**DRAFT**

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

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

**Wednesday, May 22, 2024 – 9:30 a.m.**

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

The following proxies were assigned:

* Eric Goff to Nabaraj Pokharel for NOGRR245 Only
* Garret Kent to Eric Shubert
* Nick Fehrenbach to Richard Arnett
* Mike Wise to Blake Holt
* Bill Barnes to Chris Hendrix
* Jay Harpole to Chris Hendrix

*Guests:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Aldridge, Josh | FEUS | | Via Teleconference | |
| Aldridge, Ryan | AB Power Advisors | | Via Teleconference | |
| Allen, Thresa | Avangrid Renewables | |  | |
| Amirazodi, Roozbeh | Got Rhythm | | Via Teleconference | |
| Anderson, Connor | AB Power Advisors | | Via Teleconference | |
| Anderson, Kevin | Customized Energy Solutions (CES) | | Via Teleconference | |
| Anderson, Lyrae | Akuo Energy | | Via Teleconference | |
| Andrus, Sydney | PGR | | Via Teleconference | |
| Aragon, Alex | Office of Texas Governor Greg Abbott | | Via Teleconference | |
| Ashley, Kristy | CES | |  | |
| Azari, David | Invenergy | | Via Teleconference | |
| Bansal, Apoorva | NextEra Energy | | Via Teleconference | |
| Barati, Camron | Potomac Economics | | Via Teleconference | |
| Beckman, Kara | NextEra Energy | |  | |
| Benson, Mariah | Texas Public Power Association (TPPA) | |  | |
| Benzerga, Lamine | Constellation | | Via Teleconference | |
| Bernier, Benjamin | Mercuria | | Via Teleconference | |
| Berry, Danny | LCRA | | Via Teleconference | |
| Bertin, Suzanne |  | | Via Teleconference | |
| Bevill, Rob | TNMP | | Via Teleconference | |
| Bezwada, Neelima | Potomac Economics | | Via Teleconference | |
| Binda Pereira, Mariana | GE | | Via Teleconference | |
| Bivens, Carrie | NextEra Energy | |  | |
| Blankenship, David | CNP | | Via Teleconference | |
| Boggs, Callie | Goff Policy | | Via Teleconference | |
| Bonner, Bob | Satoshi Energy | | Via Teleconference | |
| Bruce, Mark | Cratylus Advisors | | Via Teleconference | |
| Brown, Chris | PUCT | | Via Teleconference | |
| Bulzak, Jacob | Public Utility Commission of Texas (PUCT) | | Via Teleconference | |
| Bunch, Kevin | EDF Trading | |  | |
| Callahan, Hunter | BOFA | | Via Teleconference | |
| Callender, Hudson | CPS Energy | | Via Teleconference | |
| Chan, Vanessa | Enel | | Via Teleconference | |
| Chavez, Andrea |  | | Via Teleconference | |
| Chante, Lora | Avangrid | | Via Teleconference | |
| Cheng, Yong | LCRA | | Via Teleconference | |
| Chmiel, Gary | GE | | Via Teleconference | |
| Chwialkowski, Todd | EDF Renewables | |  | |
| Claiborn-Pinto, Shawnee | PUCT | | Via Teleconference | |
| Clark, Jack | Spearmint Energy | | Via Teleconference | |
| Clements, Doug |  | | Via Teleconference | |
| Cockrell, Justin | DC Energy | | Via Teleconference | |
| Cochran, Seth | Vitol | | Via Teleconference | |
| Coleman, Diana | CPS Energy | |  | |
| Cook, Kristin | Southern Power | | Via Teleconference | |
| Cripe, Ramsey | SEnergy | | Via Teleconference | |
| Crist, Kelly | ENGIE | | Via Teleconference | |
| Dekshenieks, Avery | Modo Energy | | Via Teleconference | |
| Dernulc, Lawrence | Invenergy | | Via Teleconference | |
| Deshmukh, Kaustubh | LRE | | Via Teleconference | |
| Desrosiers, Erik | New Grid | | Via Teleconference | |
| Detelich, David | CPS | | Via Teleconference | |
| Dharme, Neeraja | EDFT | | Via Teleconference | |
| Dietert, Cole | EPE Consulting | | Via Teleconference | |
| Donohoo, Ken | OwlERC | | Via Teleconference | |
| Duensing, Allison | Sarac Energy | | Via Teleconference | |
| Edris, Scott | BOFA | | Via Teleconference | |
| El Khatib, Mohamed | Invenergy | | Via Teleconference | |
| Elsik, Alex |  | | Via Teleconference | |
| Embrey, Tammy | Invenergy | | Via Teleconference | |
| Fink, Regan | PG Renewables | | Via Teleconference | |
| Garner, Joshua | Southern Power | | Via Teleconference | |
| Garza, B. |  | | Via Teleconference | |
| Gentry, Caroline | Nodal Exchange | | Via Teleconference | |
| George, Ian |  | | Via Teleconference | |
| Gilman, Portia | Yes Energy | | Via Teleconference | |
| Goff, Eric | NextEra Energy Resources NOGRR245 Discussion Only | |  | |
| Greaff, Venona | Occidental Chemical | | Via Teleconference | |
| Greer, Clayton | Cholla Petroleum | | Via Teleconference | |
| Griffith, Meghan | Jackson Walker | |  | |
| Grutter, Aaron | Calpine | | Via Teleconference | |
| Gupta, Gaurav | 61 Commodities | | Via Teleconference | |
| Hale, Josh | Southern Power | | Via Teleconference | |
| Hall, Matthew | Invenergy | | Via Teleconference | |
| Hammer, Neal | Invenergy | | Via Teleconference | |
| Hao, Claire | Houston Chronicle | | Via Teleconference | |
| Harvey, Julia | Texas Electric Cooperatives (TEC) | | Via Teleconference | |
| Headrick, Bridget | CES | |  | |
| Heith, Mattie | Calpine | | Via Teleconference | |
| Henry, Mark | Texas Reliability Entity (Texas RE) | | Via Teleconference | |
| Henson, Martha | Oncor | | Via Teleconference | |
| Hjaltman, Courtney | OPUC | | Via Teleconference | |
| Horstmyer, Reid | Altop Energy | | Via Teleconference | |
| Hubbard, John Russ | Texas Industrial Energy Consumers (TIEC) | |  | |
| Hughes, Lindsey | ENGIE | | Via Teleconference | |
| Ingraham, Deborah | Acciona Energy | |  | |
| Inman, Grant | BP | | Via Teleconference | |
| Jamar, Ben | ECI | | Via Teleconference | |
| Jewell, Michael | Jewell and Associates | | Via Teleconference | |
| John, Ebby | CNP | | Via Teleconference | |
| Johnson, John | EDF Trading | | Via Teleconference | |
| Johnson, Natalie | Enel | | Via Teleconference | |
| Lee, Jim | CNP | |  | |
| Lin, Blake | Potomac Economics | | Via Teleconference | |
| Lucky, Nicole | Invenergy | | Via Teleconference | |
| Jewell, Michael | Jewell and Associates | | Via Teleconference | |
| Jones, Randy | Mountaineer Market Advisors | | Via Teleconference | |
| Kaepplinger, Ashley | Enel | | Via Teleconference | |
| Keefer, Andrew | DME | | Via Teleconference | |
| Keller, Jenna | Potomac Economics | | Via Teleconference | |
| Kemper, Jason | EDFR | | Via Teleconference | |
| Khayat, Maribel | CNP | | Via Teleconference | |
| Kilroy, Taylor | TPPA | | Via Teleconference | |
| Kimbrough, Todd | Southern Power | |  | |
| King, Blake | Galaxy | | Via Teleconference | |
| Kinnee, Aaron |  | | Via Teleconference | |
| Kirby, Trevor |  | | Via Teleconference | |
| Koz, Brian |  | | Via Teleconference | |
| Kremling, Barry | GVEC | | Via Teleconference | |
| Kunkel, Dennis | AEP | | Via Teleconference | |
| Lauer, Hannah | Avangrid | | Via Teleconference | |
| Loew, Beverly | Goff Policy | | Via Teleconference | |
| Macaraeg, Tad | Stem | | Via Teleconference | |
| Mass, Annette | LCRA | | Via Teleconference | |
| McClellan, Suzi | Good Company Associates | | Via Teleconference | |
| McD Wyman, Constance |  | | Via Teleconference | |
| McDonald, Jeff | Potomac Economics | |  | |
| McKeever, Debbie | Oncor | | Via Teleconference | |
| McMurray, Creighton | Spencer Fane | |  | |
| Melaerts, Sebastien | 61 Commodities | | Via Teleconference | |
| Miller, Alexandra | EDF Renewables | |  | |
| Miremadi, Ali | CAISO | | Via Teleconference | |
| Mitasev, Alex | Avangrid | | Via Teleconference | |
| Mohammed, Tim |  | | Via Teleconference | |
| Moore, Sylvain | Boralex, Inc. | | Via Teleconference | |
| Morris, Sandy | WETT | | Via Teleconference | |
| Mostek, John | Constellation | | Via Teleconference | |
| Navarro, Jesus | Luminant | | Via Teleconference | |
| Nicholson, Tyler | PUCT | | Via Teleconference | |
| Nguyen, Andy | Constellation Energy Generation | | Via Teleconference | |
| Orr, Rob | Lone Star Transmission | | Via Teleconference | |
| Osborne, Kimberly | Avangrid | | Via Teleconference | |
| Owens, Frank | Rayburn Electric Cooperative | | Via Teleconference | |
| Palani, Ananth | GP&L | | Via Teleconference | |
| Patrick, Kat | Pattern Energy | | Via Teleconference | |
| Pearson, Arthur | Blueprint Power | | Via Teleconference | |
| Pearson, Kelsey | Longhorn Power | |  | |
| Pfefferle, Ryan | Occidental Chemical | | Via Teleconference | |
| Plautz, Jason |  | | Via Teleconference | |
| Preston, Gene | Institute of Electrical  and Electronics Engineers (IEEE) | | Via Teleconference | |
| Quezada, Robert | AES | | Via Teleconference | |
| Quint, Ryan | Elevate Energy Consulting | |  | |
| Ratliff, Shannon |  | | Via Teleconference | |
| Ravichandran, Goutham | Vistra | | Via Teleconference | |
| Reasor, Deidra | GVEC | | Via Teleconference | |
| Richmond, Michele | Texas Competitive Power Advocates (TCPA) | | Via Teleconference | |
| Ritch, John | Trafigura | | Via Teleconference | |
| Robertson, Stephen | PBPA | | Via Teleconference | |
| Rochelle, Jennifer | CES | |  | |
| Rogers, Donald | Avangrid | | Via Teleconference | |
| Safko, Trevor | LCRA | |  | |
| Sager, Brenden | Austin Energy | | Via Teleconference | |
| Sandidge, Clint | Calpine | | Via Teleconference | |
| Schatz, John | Luminant Generation | | Via Teleconference | |
| Schneiderman, Jason | Morgan Stanley | | Via Teleconference | |
| Scott, Kathy | CNP | | Via Teleconference | |
| Sersen, Juliana | Baker Botts | |  | |
| Shepperd, Ben | PBPA | | Via Teleconference | |
| Sickafoose, Lauren | EDF Energy | | Via Teleconference | |
| Siddiqi, Shams | Crescent Power Consulting | | Via Teleconference | |
| Singh, Vikramjit |  | | Via Teleconference | |
| Sinn, Adam |  | | Via Teleconference | |
| Skipton, Jimmy | Baker Botts | |  | |
| Smith, Chase | Southern Power | | Via Teleconference | |
| Smith Stephanie | Eolian | |  | |
| Spencer, Mark | Linebacker Power | | Via Teleconference | |
| Stanfill, Susan | PGR | | Via Teleconference | |
| Stice, Clayton |  | |  | |
| Sweet, Regina | Onward Energy | | Via Teleconference | |
| Tay, Sing | AES | | Via Teleconference | |
| Teng, Shuye | Constellation | | Via Teleconference | |
| Thomas, Shane | SENA | |  | |
| Tomaine, Christian | TPS | |  | |
| Townsend, Paul | TCPA | | Via Teleconference | |
| True, Roy | ACES | | Via Teleconference | |
| Utomi, Samuel | Leeward Energy | | Via Teleconference | |
| Uy, Manny | Hunt Energy | | Via Teleconference | |
| Van Winkle, Kim | PUCT | | Via Teleconference | |
| Velasquez, Ivan | Oncor | | Via Teleconference | |
| Viswanathan, Jay |  | | Via Teleconference | |
| Wagner, Julia | PUCT | | Via Teleconference | |
| Walke, Pranil | Calpine | | Via Teleconference | |
| Walker, Floyd | PUCT | | Via Teleconference | |
| Walker, Mark | M and F | | Via Teleconference | |
| Walters, Jodi | EDP Renewables | |  | |
| Watson, Markham |  | | Via Teleconference | |
| Webking, Cathy | Spencer Fane | |  | |
| White, Lauri | AEP Texas | | Via Teleconference | |
| Williams, Wes | Bryan Texas Utilities | | Via Teleconference | |
| Wittmeyer, Bob | Longhorn Power | | Via Teleconference | |
| Woods, Brad | Texas RE | | Via Teleconference | |
| Wright, Chris | Spearmint Energy | | Via Teleconference | |
| Xiao, Hong | Energy Exemplar | | Via Teleconference | |
| Xie, Fei | Austin Energy | | Via Teleconference | |
| Zambrano, Tadeo | SEnergy | | Via Teleconference | |
| Zang, Hailing | Potomac Economics | | Via Teleconference | |
| Zarnikau, Jay | The University of Texas at Austin | | Via Teleconference | |
| Zhang, Mandy | GEUS | | Via Teleconference | |
| Zito, David | Gabel Associates | |  | |
|  | |  | |  |
| *ERCOT Staff:* | |  | |  |
| Abbott, Kristin | |  | | Via Teleconference |
| Albracht, Brittney | |  | |  |
| Anderson, Troy | |  | |  |
| Arth, Matt | |  | | Via Teleconference |
| Azeredo, Chris | |  | | Via Teleconference |
| Benavides, Marcos | |  | | Via Teleconference |
| Billo, Jeff | |  | |  |
| Blevins, Bill | |  | | Via Teleconference |
| Boren, Ann | |  | |  |
| Butler, Luke | |  | |  |
| Chu, Zhengguo | |  | |  |
| Clifton, Suzy | |  | |  |
| Cyphers, Darrell | |  | | Via Teleconference |
| Day, Betty | |  | | Via Teleconference |
| Drake, Gordon | |  | |  |
| Dwyer, Davida | |  | |  |
| Frosh, Colleen | |  | | Via Teleconference |
| Gallo, Andrew | |  | | Via Teleconference |
| Garcia, Freddy | |  | |  |
| Gnanam, Prabhu | |  | |  |
| Golen, Robert | |  | | Via Teleconference |
| González, Ino | |  | | Via Teleconference |
| Gravois, Patrick | |  | | Via Teleconference |
| Hailu, Ted | |  | | Via Teleconference |
| Hanson, Pamela | |  | |  |
| Herrera, Shane | |  | | Via Teleconference |
| Hinojosa, Luis | |  | | Via Teleconference |
| Huang, Fred | |  | |  |
| Jenkins, Darrell | |  | | Via Teleconference |
| Johnson, Blane | |  | | Via Teleconference |
| King, Ryan | |  | |  |
| Lee, Alex | |  | | Via Teleconference |
| Levine, Jonathan | |  | |  |
| Li, Ying | |  | | Via Teleconference |
| Magarinos, Marcelo | |  | | Via Teleconference |
| Maggio, Dave | |  | |  |
| Mago, Nitika | |  | |  |
| Matlock, Robert | |  | | Via Teleconference |
| Mereness, Matt | |  | |  |
| Opheim, Calvin | |  | | Via Teleconference |
| Pedigo, Jake | |  | | Via Teleconference |
| Phillips, Cory | |  | |  |
| Rainwater, Kim | |  | |  |
| Rickerson, Woody | |  | |  |
| Rosel, Austin | |  | | Via Teleconference |
| Rowe, Evan | |  | | Via Teleconference |
| Schmall, John | |  | | Via Teleconference |
| Seely, Chad | |  | |  |
| Smith, Ira | |  | | Via Teleconference |
| Solis, Stephen | |  | |  |
| Troublefield, Jordan | |  | |  |
| Wasik-Gutierrez, Erin | |  | |  |
| Woodfin, Dan | |  | |  |
| Zapanta, Zaldy | |  | | Via Teleconference |
| Zhang, Qian | |  | | Via Teleconference |
| Zhou, Emily | |  | | Via Teleconference |

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

Caitlin Smith called the May 22, 2024 meeting to order at 9:30 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.

Approval of TAC Meeting Minutes (see Key Documents)[[1]](#footnote-2)

*April 15, 2023*

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

Meeting Updates

*April 22, 2024 and April 23, 2024 ERCOT Board (Board) and Committee Meetings*

*April 25, 2024 Public Utility Commission of Texas (PUCT) Meeting*

*May 10, 2024 Nodal Operating Guide Revision Request (NOGRR) 245, Inverter-Based Resource (IBR) Ride-Through Requirements Workshop*

Ms. Smith reviewed the disposition of items considered at the April 22, 2024 ERCOT Board (Board) Committee meetings; April 23, 2024 Board meeting, including the remand of NOGRR245 to TAC; and April 25, 2024 PUCT meeting. Ms. Smith provided highlights of the discussion at the May 10, 2024 NOGRR245 workshop.

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 Subgroup (CFSG) Review, budgetary impacts, and reasons for revisions for Revision Requests to be considered by TAC. Ms. Boren noted the Independent Market Monitor (IMM) opinions for Revision Requests to be considered by TAC.

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

Diana Coleman reviewed PRS activities and presented Revision Requests for TAC consideration.

*Nodal Protocol Revision Request (NPRR) 1198, Congestion Mitigation Using Topology Reconfigurations*

Market Participants reviewed NPRR1198; Planning Guide Revision Request (PGRR) 113, Related to NPRR1198, Congestion Mitigation Using Topology Reconfigurations; and Nodal Operating Guide Revision Request (NOGRR) 258, Related to NPRR1198, Congestion Mitigation Using Topology Reconfigurations.

**Kevin Hanson moved to approve the Mini Combined Ballot as follows:**

* **To recommend approval of NPRR1198 as recommended by PRS in the 5/9/24 PRS report**
* **To recommend approval of PGRR113 as recommended by ROS in the 5/2/24 ROS Report**
* **To recommend approval of NOGRR258 as recommended by ROS in the 5/2/24 ROS Report**

**Blake Holt seconded the motion. The motion carried with four abstentions from the Cooperative (STEC), Independent Generator (2) (Jupiter Power, Calpine), and Investor Owned Utility (IOU) (CNP) Market Segments.** *(Please see ballot posted with Key Documents.)*

*NPRR1218, REC Program Changes Per P.U.C. SUBST. R. 25.173, Renewable Energy Credit Program*

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

*NPRR1220, Market Restart Approval Process Modifications*

*NPRR1222, Public Utility Commission of Texas Approval of the Methodology for Determining Ancillary Service Requirements*

*NPRR1223, Addition of TA Contact Information Into TDSP Application Form*

*NPRR1228, Continued One-Winter Procurements for Firm Fuel Supply Service (FFSS) – URGENT*

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

*NPRR1224, ECRS Manual Deployment Triggers – URGENT*

Market Participants reviewed the 5/20/24 Joint Commenters comments to NPRR1224. Jeff McDonald reviewed the 5/17/24 IMM comments to NPRR1224. In response to participant questions and concerns, Jeff Billo highlighted the parallel efforts to address the issues and alternative solutions, including the PUCT Ancillary Services Study, 2025 ERCOT Ancillary Services Methodology, NPRR1224, and a Revision Request currently under development by ERCOT. Market Participants debated the appropriateness of a price floor for ERCOT Contingency Reserve Service (ECRS) and the appropriate value.

**Ned Bonskowski moved to recommend approval of NPRR1224 as recommended by PRS in the 5/9/24 PRS Report. Mr. Holt seconded the motion.**

**Rick Arnett moved to amend the motion to recommend approval of NPRR1224 as recommended by PRS in the 5/9/24 PRS Report as amended by the 5/17/24 IMM comments. Eric Schubert seconded the motion. The motion to amend failed with 18 objections from the Cooperative (4) (GSEC, LCRA, PEC, STEC), Independent Generator (4) (Calpine, Jupiter Power, ENGIE, Luminant), Independent Power Marketer (IPM) (4) (SENA, Tenaska, Morgan Stanley, NG Renewables), IOU (2) (Oncor, AEPSC), and Municipal (4) (GP&L, DME, CPS Energy, Austin Energy) Market Segments and two abstentions from the IOU (TNMP, CNP) Market Segment.** *(Please see ballot posted with Key Documents.)*

Participants proposed desktop edits to lower the price floor from the PRS-recommended value of $1,000 per Megawatt Hour (MWh) to $500 per MWh.

**Bill Barnes moved to amend the motion to recommend approval of NPRR1224 as recommended by PRS in the 5/9/24 PRS Report as revised by TAC ($500 floor). Chris Hendrix seconded the motion. The motion to amend failed with 18 objections from the Consumer (6) (Residential Consumer, OPUC, CMC Steel, Lyondell Chemical, City of Eastland, City of Dallas), Cooperative (4) (GSEC, LCRA, PEC, STEC), Independent Generator (4) (Calpine, Jupiter Power, ENGIE, Luminant), and IPM (4) (SENA, Tenaska, Morgan Stanley, NG Renewables) Market Segments and two abstentions from the IOU (TNMP, CNP) Market Segment.** *(Please see ballot posted with Key Documents.)*

**The original motion to recommend approval of NPRR1224 as recommended by PRS in the 5/9/24 PRS Report failed with 11 objections from the Consumer (6) (Residential Consumer, OPUC, CMC Steel, Lyondell Chemical, City of Eastland, City of Dallas), Independent Retail Electric Provider (IREP) (4) (Reliant, Rhythm Ops, APG&E, Demand Control 2), and Municipal (GP&L) Market Segments and four abstentions from the IOU (TNMP) and Municipal (3) (DME, CPS Energy, Austin Energy) Market Segments.** *(Please see ballot posted with Key Documents.)*

Participants proposed desktop edits to lower the price floor from the PRS-recommended value of $1,000 per MWh to $750 per MWh.

**Bob Helton moved to recommend approval of NPRR1224 as recommended by PRS in the 5/9/24 PRS Report as revised by TAC ($750 floor). Resmi Surendran seconded the motion. The motion carried with ten objections from the Consumer (6) (Residential Consumer, OPUC, CMC Steel, Lyondell Chemical, City of Eastland, City of Dallas) and IREP (4)** **(Reliant, Rhythm Ops, APG&E, Demand Control 2) Market Segments.** *(Please see ballot posted with Key Documents.)*

*NPRR1230, Methodology for Setting Transmission Shadow Price Caps for an IROL in SCED – URGENT*

Freddy Garcia reviewed the 5/20/24 ERCOT comments to NPRR1230. Some Market Participants requested additional time to review NPRR1230 and the appropriate amount of notice ahead of any Shadow Price cap changes. Dan Woodfin reiterated the request for summer 2024 implementation. Market Participants reviewed the Revision Request timeline and requested consideration of NPRR1230 at the May 31, 2024 Special TAC meeting.

**David Kee moved to table NPRR1230. Alicia Loving seconded the motion. The motion carried with one abstention from the Independent Generator (Luminant) Market Segment.** *(Please see ballot posted with Key Documents.)*

Revision Requests Tabled at TAC (See Key Documents)

*Other Binding Document Revision Request (OBDRR) 046, Related to NPRR1188, Implement Nodal Dispatch and Energy Settlement for Controllable Load Resources*

*OBDRR051, Related to NPRR1216, Implementation of Emergency Pricing Program*

TAC took no action on these items.

*PGRR105, Deliverability Criteria for DC Tie Imports*

Market Participants reviewed the 5/9/24 Request for Withdrawal of PGRR105. Collin Martin noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

Retail Market Subcommittee (RMS) Report (See Key Documents)

John Schatz reviewed RMS activities.

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

Katie Rich reviewed ROS activities.

*PGRR113*

*NOGRR258*

These items were considered above with NPRR1198.

Wholesale Market Subcommittee (WMS) Report (see Key Documents)

Eric Blakey reviewed WMS activities.

Large Flexible Load Task Force (LFLTF) Report

Bill Blevins reviewed LFLTF activities.

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

*Endorsement of Mitigated Offer Caps for Hydro for Real-Time Co-optimization (RTC)*

Matt Mereness reviewed RTCBTF activities, including the potential Market Trial Sequence and Next Steps, and requested TAC endorsement of the ERCOT proposed recommendation for setting the Mitigated Offer Cap (MOC) for all Hydro Resources to the Real-Time System-Wide Offer Cap (RTSWCAP) to resolve Issue #4, Verifiable Cost Manual (Change for on-line Hydro Resources per Key Principle 1.3(3)), in the RTCBTF Issues list. Mr. Martin noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

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

Brenden Sager reviewed CFSG activities.

ERCOT Reports (see Key Documents)

*Proposed revisions to Board Policies and Procedures*

Kim Rainwater presented updated proposed revisions to the Revision Request process sections of the ERCOT Board Policies and Procedures based on stakeholder feedback received following the discussion at the April 15, 2024 TAC meeting, and responded to Market Participant questions and concerns. Jon Levine noted that this item would be considered at the June 18, 2024 Board meeting.

*Oncor West Texas 345-* *Kilovolt (kV) Infrastructure Rebuild Regional Planning Group (RPG) Project*

Prabhu Gnanam presented the ERCOT independent review of the Tier 1 West Texas 345-kV Infrastructure Rebuild RPG Project and the ERCOT recommendation to address the reliability needs in the Scurry, Mitchell, Howard, Glasscock, Martin, Midland, and Ector Counties in the West and Far West Weather Zones. Mr. Gnanam also responded to Market Participant questions and concerns. Ms. Smith noted this item could be considered in the [Combined Ballot](#Combined_Ballot).

*2023 Maximum Daily Resource Planned Outage Capacity (MDRPOC) Performance and Methodology Review*

Luke Butler reviewed stakeholder feedback received since the MDRPOC Performance and Methodology review discussion at the April 15, 2024 TAC meeting, responded to Market Participant questions and concerns, requested stakeholders email additional requests to [OperationsAnalysis@ercot.com](mailto:OperationsAnalysis@ercot.com), and stated that ERCOT will present the results of the performance review to TAC by the end of 2024.

Other Business (see Key Documents)

*2025 Block Calendar*

Ms. Boren presented the revised draft 2025 Block Calendar and highlighted meeting efficiencies in consideration of the 2025 Board meeting schedule. Market Participants expressed support for the proposed meeting efficiencies. Ms. Boren noted that the 2025 TAC meetings would be posted to the ERCOT website and that the Block Calendar will be reviewed at the Subcommittee June and July meetings.

*TAC Representatives at Annual meeting*

Ms. Smith summarized potential processes for selecting TAC Representatives to speak at the 2024 Annual Meeting of ERCOT Members, requested stakeholder feedback on the process, and stated that TAC would revisit the issue at the July 31, 2024 TAC meeting.

Combined Ballot

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

* **To approve the April 15, 2024 TAC Meeting Minutes as presented**
* **To recommend approval of NPRR1218 as recommended by PRS in the 5/9/24 PRS Report**
* **To recommend approval of NPRR1220 as recommended by PRS in the 5/9/24 PRS Report**
* **To recommend approval of NPRR1222 as recommended by PRS in the 5/9/24 PRS Report**
* **To recommend approval of NPRR1223 as recommended by PRS in the 5/9/24 PRS Report**
* **To recommend approval of NPRR1228 as recommended by PRS in the 5/9/24 PRS Report**
* **To approve the 5/29/24 Request for Withdrawal for PGRR105**
* **To endorse the Mitigated Offer Caps for Hydro for RTC**
* **To endorse the Oncor West Texas 345-kV Infrastructure Rebuild Project as recommended by ERCOT**

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

NOGRR245 (see Key Documents)

Ms. Smith noted the goal for the discussion on NOGRR245 was to continue to develop draft concepts and potential areas of agreement to respond to the Board directives. Ryan Quint reviewed the 5/15/24 Elevate Energy Consulting comments, presented their analysis and potential solutions including the “defense in depth” approach, and responded to participant questions and concerns. Woody Rickerson highlighted the discussion from the May 10, 2024 NOGRR245 workshop and summarized key concepts reflected in ERCOT’s draft revisions to the Operating Guide language in the 3/24/24 TAC Report. Stephen Solis reviewed the ERCOT draft redlines that, among other things, removed the “commercially reasonable” concept, focused on maximizing equipment capabilities, and established a framework that would allow ERCOT to consider reliability risk to the ERCOT System and cost when considering exceptions. Participants discussed maximizing equipment capability, the appropriate cost threshold that would be used in the exemption process, modeling issues and implementation dates.

**Ms. Smith moved to table NOGRR245. Mr. Helton seconded the motion. The motion carried unanimously.** *(Please see ballot posted with Key Documents.)*

Participants further debated the issues. Mr. Martin requested Market Participants look at the proposed concepts of maximizing equipment capability, consider whether ERCOT’s proposal extends requirements up to or beyond the requirements identified in the new 2800-2022 - Institute of Electrical and Electronics Engineers (IEEE) Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems (“IEEE 2800-2022 standard”), and then bring tangible, substantial recommendations to the draft ERCOT redlines to the May 31, 2024 TAC meeting for discussion.

Mr. Martin adjourned the May 22, 2024 TAC meeting at 5:09 p.m.

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

   <https://www.ercot.com/calendar/05222024-TAC-Meeting> [↑](#footnote-ref-2)