

**Day 1—February 19, 2025**

**1:00 p.m. to 5:00 p.m.**

**1. Welcome, Call to Order**

Phillip Augustin, Reliability Assessment Committee (RAC) Chair, called the meeting to order at 1:02 p.m. MT on February 19, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

**2. Review WECC Antitrust Policy**

Enoch Davies, Reliability Modeling Manager, read aloud the WECC Antitrust Policy statement. The policy can be found on [wecc.org](http://wecc.org).

**3. Approve Agenda**

P. Augustin introduced the proposed meeting agenda.

**By consensus, the RAC approved the agenda.**

**4. Review and Approve Previous Meeting Minutes**

P. Augustin introduced the minutes from the meeting on October 15–16, 2024.

**On a motion by Chelsea Loomis, RAC Co-Chair, the RAC approved the minutes from October 15–16, 2024.**

**5. Review Previous Action Items**

Daja Bell, Administrative Coordinator, reviewed action items carried over from the RAC meeting on October 15–16, 2024. Action items that are not closed can be found on [wecc.org](http://wecc.org)

**6. System Review Subcommittee (SRS)**

Jeffrey Anderson, Western Area Power Administration, provided an update on the SRS for the committee. E. Davies, C. Loomis, and P. Augustin, will ask the SRS to review generator EIA information as part of the power flow at the April 2025 SRS meeting.

**7. Long-Term Transmission Planning Task Force (LTPTF)**

Allison Auld-Hill, Southern California Edison, and Jennifer Galaway, Portland General Electric, presented on the LTPT.



## **RAC Meeting Minutes—February 19–20, 2024**

The presentation can be found on wecc.org.

**On motion by Chifong Thomas, the RAC approved the LTPTF recommendation.**

### **Day 2—February 20, 2025**

**9:03 a.m. to 12:00 p.m.**

#### **8. Review RAC Charter**

P. Augustin reviewed the RAC charter with the committee. C. Loomis, E. Davies, and P. Augustin, will create a meeting to review and edit the RAC Charter and send it to WECC's technical editor once finished to be approved at the July RAC meeting.

#### **9. Production Cost Data Subcommittee (PCDS)**

Kevin Harris, Pacific Northwest National Laboratories, presented on the PCDS. C. Loomis, P. Augustin, and E. Davies will review the L&R data request and DPM to make sure the two documents are well aligned and to see whether they could be combined, then write a plan for that process.

The presentation can be found on wecc.org.

#### **10. Electromagnetic Transient Modeling (EMT)**

Logan Affleck, Staff Engineer, presented on EMT.

The presentation can be found on wecc.org.

#### **11. Modeling and Validation Subcommittee (MVS)**

Song Wang, Portland General Electric Company, updated the committee on the MVS.

#### **12. Impedance Measurement Toolbox**

Henry Wu presented on the Impedance Measurement Toolbox.

The presentation can be found on the WECC website.

#### **13. TPL-008 Standard Development**

David Le and Hayk Zargaryan, California Independent System Operators, and Dmitry Kosterev, Bonneville Power Administration, presented on TPL-008.

The presentation can be found on wecc.org.



## RAC Meeting Minutes—February 19–20, 2024

### 14. NERC 901 Workshop and Activities

E. Davies and Jamie Calderon, NERC, presented the NERC 901 Workshop and activities.

The presentation can be found on [wecc.org](http://wecc.org).

### 15. Environmental and Cultural Data Viewer Discussion

E. Davies led a discussion on the environmental and cultural data viewer.

### 16. Public Comment

No comments were made.

### 17. Review New Action Items

- Create a meeting to review and edit the RAC Charter, send to WECC’s technical editor once finished to be approved at the July RAC meeting.
  - Assigned To: E. Davies, C. Loomis, P. Augustin
  - Due Date: July 8, 2025
- Request for the SRS to review generator EIA information as part of the power flow.
  - Assigned To: E. Davies, C. Loomis, P. Augustin
  - Due Date: April 30, 2025
- Review the L&R data request and DPM to make sure that the two documents are well aligned. See whether they could be combined. Write a plan for that process.
  - Assigned To: E. Davies, C. Loomis, P. Augustin, WECC Staff, Chifong Thomas
  - Due Date: July 8, 2025

### 18. Upcoming Meetings

July 8–9, 2025 ..... Virtual

October 22–23, 2025 ..... Salt Lake City, Utah

### 19. Adjourn

P. Augustin adjourned the meeting without objection at 12:06 p.m.



## RAC Meeting Minutes—February 19–20, 2024

### Exhibit A: Attendance List

#### Members in Attendance

Philip Augustin .....Salt River Project  
Allison Auld-Hill ..... Southern California Edison Company  
Scott Beyer .....PacifiCorp  
Aseem Bhatia.....California Department of Water Resources  
Gordon Dobson-Mack.....Powerex, Inc.  
Fred Heutte..... NW Energy Coalition  
Ben Hutchins .....Western Power Pool  
Todd Lichtas..... Tucson Electric Power  
Chelsea Loomis .....Western Power Pool  
Peter Mackin..... GridBright, Inc.  
Biju Naduvathuparambil Gopi.....California Independent System Operator  
Jacob Richardson ..... Western Resource Advocates  
Erik Schellenberg .....Idaho Power Company  
Trevor Schultz .....Idaho Power Company  
Robert Smith..... TransCanyon LLC  
Chifong Thomas ..... Thomas Grid Advisor  
Jerod Vandehey..... Public Utility District No. 1 of Cowlitz County  
Song Wang..... Portland General Electric Company  
Hayk Zargaryan..... Southern California Edison Company

#### Members not in Attendance

Ravi Aggarwal .....Bonneville Power Administration—Transmission  
Sharmen Andrew.....MATL Canada L.P.  
John Armenta .....Farmington Electric Utility System  
Paul Arnold ..... EnTranTek LLC  
Ehsan Azordegan ..... Kinectrics US  
Eric Bahr.....NorthWestern Energy



## RAC Meeting Minutes—February 19–20, 2024

Nathan Barcic ..... California Public Utilities Commission  
Ian Beil..... Portland General Electric Company  
Constance Bergmark ..... Imperial Irrigation District  
Mitchell Betonie ..... Farmington Electric Utility System  
Zachary Beus ..... Puget Sound Energy, Inc.  
Jeffrey Billinton ..... California Independent System Operator  
Savina Blackman..... Clearway Energy Operating, LLC (NRG)  
Brett Bodine ..... Turlock Irrigation District  
Marian Bonar..... Gallatin Power Partners, LLC  
Diane Brandt ..... Renewable Northwest  
Marcus Brown..... NaturEner USA, LLC  
Jeremy Brownrigg..... Platte River Power Authority  
Jason Burwen ..... GridStor LLC  
Shawn Carlson ..... Basin Electric Power Cooperative  
Kris Carper ..... Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives)  
Tim Cherry ..... Metropolitan Water District of Southern California  
Chris Colson ..... Western Area Power Administration  
Dennis Desmarais ..... Copia Power DevCo, LLC  
Bryce Dininger ..... Central Arizona Water Conservation District  
Rodica Donaldson ..... EDF Renewable Energy  
Thomas Duane ..... Public Service Company of New Mexico  
Kirsten Eliassen..... Gallatin Power Partners, LLC  
Greg Engels ..... British Columbia Utilities Commission  
Roberto Favela ..... El Paso Electric Company  
Jonathon Flores ..... Los Angeles Department of Water and Power  
Shaun Foster ..... Portland General Electric Company  
Jordy Fuentes ..... Arizona Power Authority  
Jennifer Galaway ..... Portland General Electric Company



## RAC Meeting Minutes—February 19–20, 2024

Allen Green..... U.S. Army Corps of Engineers, Portland District  
Ron Grife..... Leeward Renewable Energy, LLC  
Ernie Griggs..... Cascade Renewable Transmission, LLC  
John Gross.....Avista Corporation  
Mike Guité ..... British Columbia Hydro and Power Authority  
Val Guzman Ridad ..... Silicon Valley Power (City of Santa Clara)  
Mark Hackney..... Open Access Technology International  
James (Jim) Hadley ..... Black Hills Corporation  
Christina Hajny ..... U.S. Army Corps of Engineers, Portland District  
Ryan Hancock .....Grid Subject Matter Experts  
Nadine Hanhan.....Oregon Public Utility Commission  
Jeff Hanson ..... Colorado Springs Utilities  
Johanna Hanson..... Washington Department of Commerce - State Energy Office  
Jonathan Hayes .....Southwest Power Pool  
Chris Hofmann .....Sacramento Municipal Utility District  
Bill Hosie..... PSI Power System Innovation Corp.  
Peter Huang.....Alberta Electric System Operator  
Ryan Hubbard..... Tri-State Generation and Transmission—Reliability  
Nicole Hughes..... Renewable Northwest  
Rhett Hurless..... Absaroka Energy, LLC  
Richard Jackson..... U.S. Bureau of Reclamation  
Robert Jackson..... Burns & McDonnell (1898 and Co.)  
Harley Johnson ..... Tacoma Power  
Holly Johnson.....City of Redding  
Mike Johnson..... Pacific Gas and Electric Company  
Justin Joiner ..... TransCanyon LLC  
Will Jolley.....GridStor LLC  
Charles Jones ..... Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives)



## RAC Meeting Minutes—February 19–20, 2024

Lorissa Jones.....Bonneville Power Administration—Transmission  
Peter Jones ..... Puget Sound Energy, Inc.  
Robert Jones..... Seattle City Light  
Anish Joshi.....Transmission Agency of Northern California  
Lesley Kayser-Sprouse..... Hetch Hetchy Water and Power  
Ryan Kerr..... Public Utility District No. 1 of Clark County  
Cathy Kim.....Copia Power DevCo, LLC  
Eli King..... Washington Department of Commerce - State Energy Office  
Ruth Kloecker..... ITC Grid Development, LLC  
Michael Korhonen .....Western Area Power Administration  
Luca Kovacic .....Direct Energy Business Marketing, LLC  
John Kyei..... TransCo Energy, LLC  
Josh Langer .....I2R Grid Solutions, Inc  
Josh Laurandeau .....NorthWestern Energy  
Justin Lee .....Salt River Project  
John Leland.....Northern Tier Transmission Group  
Daniel Leon ..... Power Systems Consultants, Inc.  
John Liang..... Public Utility District No. 1 of Snohomish County  
Patrick Ma..... Energy Exemplar, LLC  
Richard Maguire .....Electrical Consultants, Inc.  
Habibou Maiga ..... San Diego Gas and Electric  
Sarah Majok.....Sarah Aggrey Consulting Engineers LLC  
Jessica Markovich ..... Eugene Water & Electric Board  
Tiana Marmitt ..... Energy Exemplar, LLC  
Jesus Martinez .....Imperial Irrigation District  
John D. Martinsen..... Public Utility District No. 1 of Snohomish County  
Christopher McLean..... California Energy Commission  
Diana McMahon .....Salt River Project



## RAC Meeting Minutes—February 19–20, 2024

Jerry Melcher ..... California Public Utilities Commission, Office of Ratepayer Advocates  
Cal Morris ..... Public Utility District No. 1 of Clark County  
Keegan Moyer ..... Energy Strategies  
Foung Mua ..... Sacramento Municipal Utility District  
Julie Myerholtz..... First Solar  
Ramya Nagarajan ..... DesertLink, LLC  
George Nail ..... Public Service Company of New Mexico  
Tyler Nice ..... Eugene Water & Electric Board  
John Nierenberg..... Tacoma Power  
Andrey Olennikov ..... Portland General Electric Company  
Dave Peck ..... California Public Utilities Commission, Office of Ratepayer Advocates  
Mateusz Pena ..... Delta-Montrose Electric Association  
Cuong Phan..... Eurowind Energy  
Chris Pink ..... Tri-State Generation and Transmission—Reliability  
Nathan Powell..... Deseret Generation & Transmission Cooperative  
Michael Pulskamp ..... U.S. Bureau of Reclamation  
Justin Radl..... EDF Renewable Energy  
Sunny Raheem ..... Southwest Power Pool  
Michael Rein..... Public Service Company of Colorado (Xcel Energy)  
Marco Rios ..... Pacific Gas and Electric Company  
Jay Robertson ..... Direct Energy Business Marketing, LLC  
Rob Robertson..... Leeward Renewable Energy, LLC  
Matt Robinson..... Arizona Public Service Company  
Michael Roetzel..... Eligius LLC  
Philip Roice..... Pend Oreille County PUD #1  
Trevor Rombough ..... Black Hills Corporation  
Faranak Sarbaz..... Los Angeles Department of Water and Power  
Steve Schaarschmidt..... Colorado Springs Utilities



## RAC Meeting Minutes—February 19–20, 2024

Matt Scheppers..... Platte River Power Authority  
Gretchen Schott..... Clearway Energy Operating, LLC (NRG)  
Masoud Shafa..... California Department of Water Resources  
Tom Siegel ..... Longroad Energy Holdings, LLC  
Alejandro Solis ..... El Paso Electric Company  
Sachin Soni..... I2R Grid Solutions, Inc  
Jonathan Stahlhut ..... TransCo Energy, LLC  
Rachel Stanford ..... Utah Associated Municipal Power Systems  
Quincy Stormer..... Electrical Consultants, Inc.  
Jan Strack ..... San Diego Gas and Electric  
Tom Studer ..... First Solar  
Spencer Tacke..... Auriga Corporation  
Holly Taylor ..... Western Interstate Energy Board  
Sonseeahray Thayer ..... Arizona Power Authority  
James Thompson ..... First-Light Energy  
Jameson Thornton ..... Burns & McDonnell (1898 and Co.)  
David Tovar..... El Paso Electric Company  
Stina Trast ..... Eurowind Energy  
Gary Trent..... Tucson Electric Power  
Edwin Tso ..... Metropolitan Water District of Southern California  
Guy Van Uytven ..... Guy Van Uytven  
Darrel G. VanCoevering ..... EnTranTek LLC  
Pushkar Wagle ..... Flynn Resource Consultants, Inc.  
Jonathan Walcott..... Delta-Montrose Electric Association  
Jeffery Watkins..... NV Energy  
Lowell Watros ..... Grid Subject Matter Experts  
Philip Westby ..... Basin Electric Power Cooperative  
Steve Wickel ..... Public Utility District No. 1 of Chelan County



## RAC Meeting Minutes—February 19–20, 2024

Scott Wilson.....Avista Corporation  
Rob Witham..... Public Utility District No. 1 of Chelan County  
David Withrow .....California Public Utilities Commission  
Jeff Wyman..... ITC Grid Development, LLC  
Chris Yoon..... Seattle City Light  
Brian Young.....Central Arizona Water Conservation District  
Nick Zettel .....City of Redding  
Janice Zewe.....Sacramento Municipal Utility District  
Kevin Zhang..... British Columbia Hydro and Power Authority  
Quinten Ziegler.....Transmission Agency of Northern California  
Karl Zimmerman ..... First-Light Energy

### Others in Attendance

Oren "Dayne" Zimmerman ..... Eligius LLC  
Logan Affleck.....WECC  
Meg Albright.....Bonneville Power Administration—Transmission  
Jeffrey Anderson..... Western Area Power Administration  
Page Andrews..... Western Area Power Administration  
Keith Ban..... San Diego Gas and Electric  
Eric Baran.....Western Interconnection Regional Advisory Body  
Daja Bell .....WECC  
Kyle Bensley ..... El Paso Electric Company  
Tanner Brier.....Bonneville Power Administration—Transmission  
Scott Brooksby.....WECC  
Lily Cheng ..... Powerex, Inc.  
Kevin Conway.....Western Power Pool  
Jeff Dagle..... Pacific Northwest National Laboratory  
Enoch Davies.....WECC  
Val Estrada..... El Paso Electric Company



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Andrew Fay .....WECC

Kevin Harris ..... Pacific Northwest National Laboratory

Corrine Higgins .....Transmission Agency of Northern California

Vic Howell .....WECC

Jon Jensen.....WECC

David Le.....California Independent System Operator

Sarah Lewis .....WECC

Jessica Lopez ..... Arizona Public Service Company

Layna McVay .....Public Utility District No. 2 of Grant County

Anuj Patil .....WECC

Tim Reynolds .....WECC

Katie Rogers .....WECC

Shane Sanders ..... Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives)

Alan Soe ..... San Diego Gas and Electric

Alexander Stewart .....Bonneville Power Administration—Transmission

Luis Vincente..... El Paso Electric Company

Mark Willis .....WECC

Esther Yu.....Powerex, Inc.

Matt Zapotocky .....WECC

