

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.

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

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 LTPTF.

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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.



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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.

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.



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Exhibit A: Attendance List

Members in Attendance

Philip AugustinSalt River Project
Allison Auld-Hill Southern California Edison Company
Scott BeyerPacifiCorp
Aseem Bhatia.....California Department of Water Resources
Gordon Dobson-Mack.....Powerex, Inc.
Fred Heutte..... NW Energy Coalition
Ben HutchinsWestern Power Pool
Todd Lichtas..... Tucson Electric Power
Chelsea LoomisWestern Power Pool
Peter Mackin..... GridBright, Inc.
Biju Naduvathuparambil Gopi.....California Independent System Operator
Jacob Richardson Western Resource Advocates
Erik SchellenbergIdaho Power Company
Trevor SchultzIdaho 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 AggarwalBonneville Power Administration—Transmission
Sharmen Andrew.....MATL Canada L.P.
John ArmentaFarmington Electric Utility System
Paul Arnold EnTranTek LLC
Ehsan Azordegan Kinectrics US
Eric Bahr.....NorthWestern Energy



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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



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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 HancockGrid Subject Matter Experts
Nadine Hanhan.....Oregon Public Utility Commission
Jeff Hanson Colorado Springs Utilities
Johanna Hanson..... Washington Department of Commerce - State Energy Office
Jonathan HayesSouthwest Power Pool
Chris HofmannSacramento 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)



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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 KorhonenWestern Area Power Administration
Luca KovacicDirect Energy Business Marketing, LLC
John Kyei..... TransCo Energy, LLC
Josh LangerI2R Grid Solutions, Inc
Josh LaurandeauNorthWestern Energy
Justin LeeSalt 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 MaguireElectrical 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 MartinezImperial Irrigation District
John D. Martinsen..... Public Utility District No. 1 of Snohomish County
Christopher McLean..... California Energy Commission
Diana McMahonSalt River Project



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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



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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



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Scott Wilson.....Avista Corporation
Rob Witham..... Public Utility District No. 1 of Chelan County
David WithrowCalifornia Public Utilities Commission
Jeff Wyman..... ITC Grid Development, LLC
Chris Yoon Seattle City Light
Brian Young.....Central Arizona Water Conservation District
Nick ZettelCity 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 BellWECC
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 FayWECC

Kevin Harris Pacific Northwest National Laboratory

Corrine HigginsTransmission Agency of Northern California

Vic HowellWECC

Jon Jensen.....WECC

David Le.....California Independent System Operator

Sarah LewisWECC

Jessica Lopez Arizona Public Service Company

Layna McVayPublic Utility District No. 2 of Grant County

Anuj PatilWECC

Tim ReynoldsWECC

Katie RogersWECC

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

Alan Soe San Diego Gas and Electric

Alexander StewartBonneville Power Administration—Transmission

Luis Vincente..... El Paso Electric Company

Mark WillisWECC

Esther Yu.....Powerex, Inc.

Matt ZapotockyWECC

