



Reliability Assessment Committee
DRAFT Meeting Minutes
June 27, 2023
Salt Lake City, Utah

1. Welcome, Call to Order

Chelsea Loomis, Reliability Assessment Committee (RAC) Co-Chair, called the meeting to order at 01:03 p.m. MT on June 27, 2023. 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 meeting agenda included a link to the posted policy.

3. Approve Agenda

Ms. Loomis introduced the proposed meeting agenda.

By Consensus the RAC approved the agenda.

4. Review and Approve Previous Meeting Minutes

Ms. Loomis introduced the minutes from the meeting on March 1–2, 2023.

Ms. Loomis introduced the minutes from the meeting on May 19, 2023.

Allison Auld-Hill abstained from the approval of the March 1–2, 2023 minutes.

On a motion by David Tovar the RAC approved the minutes from March 1–2, 2023.

On a motion by David Tovar, the RAC approved the minutes from May 19, 2023.

5. Review Previous Action Items

Daja Bell, Administrative Coordinator reviewed action items carried over from the RAC meeting on May 19, 2023. Action items that are not closed and will be carried forward can be found [here](#).

6. Studies Subcommittee

Tom Carr, WIEB, have an update on the studies committee and an overview of the 2023 Study Program.

The presentation is posted on the [WECC website](#).



7. Short-Circuit Modeling Task Force

Amos Ang, Short-Circuit Modeling Task Force (SCMTF) Chair, gave an update for the Short-Circuit Modeling Task Force.

On a motion by Chifong Thomas, the Short-Circuit Modeling Task Force was changed from a task force to a subcommittee.

The charter is posted on the [WECC website](#).

The Presentation is posted on the [WECC website](#).

8. Model Validation Subcommittee

Song Wang Model Validation Subcommittee (MVS) Chair, gave an update on the Model Validation Subcommittee.

The presentation is posted on the [WECC website](#).

9. RRC Overview

Vic Howell Reliability Risk Management Director, provided the committee with an update on the Reliability Risk Committee and outlined the RRC Risk Management process for the committee.

The presentation is posted on the [WECC Website](#).

10. RRC and RAC Leadership Coordination

Ms. Loomis discussed RRC and RAC leadership coordinating to get subcommittee, work group, and task force chairs together to develop better communication on ways the parent committees can help and support the groups.

11. National Electromagnetic Transient (EMT) Efforts

Aung Thant, NERC, presented the National Electromagnetic Transient EMT Efforts to the committee.

The presentation is posted on the [WECC website](#).

12. Electromagnetic Transients Task Force Next Steps

Tracy Rolstad Electromagnetic Transients Task Force(EMFTF) Chair, gave an update on the Electromagnetic Transient Task force.



13. System Review Subcommittee

Tracy Rolstad System Review Subcommittee (STS) Co-Chair, gave an update on the System Review Subcommittee.

The presentation is posted on the [WECC website](#).

14. Production Cost Data Subcommittee

Kevin Harris Production Cost Data Subcommittee (PCDS), Pacific Northwest National Laboratory, gave an update on the Production Cost Data Subcommittee.

The presentation is posted on the [WECC website](#).

15. Transmission Planning in the West – October 2023 RAC Workshop Discussion Summary and Next Steps

Ms. Loomis discussed the October 2023 RAC workshop summary and the next steps for the long-term planning task force with the committee.

The presentation is posted on the [WECC website](#).

16. Resource Adequacy Advisory Group

Mr. Davies gave an update on the Resource Adequacy Advisory Group; the group has not met just yet but are welcoming volunteers to participate. The group will soon be reaching out for feedback on the Western Assessment.

17. Minutes Approach

Mr. Davies outline WECC's updated approach to writing meeting minutes and Roberts Rules.

The Presentation is posted on the [WECC Website](#).

Public Comment

No comments were made.

18. Review New Action Items

- Add: Discuss developing business case for near term production cost modeling data set with RAC. To the next RAC agenda item.
 - Assigned To: Enoch Davies
 - Due Date: October 24, 2023



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19. Upcoming Meetings

August 28, 2023 RAC Steering Committee Virtual

September 21, 2023 RAC Steering Committee Virtual

October 24, 2023..... Virtual

20. Adjourn

Ms. Loomis adjourned the meeting without objection at 12:01 p.m.



Exhibit A: Attendance List

Members in Attendance

Hamid Atighechi Powerex, Inc.

Allison Aud-Hill Southern California Edison Company

Philip Augustin..... Salt River Project

Jamie Austin PacifiCorp

Eric Bahr..... NorthWestern Energy

Aseem Bhatia..... California Department of Water Resources

Marian Bonar..... Gallatin Power Partners, LLC

Thomas Carr..... Western Interstate Energy Board

Biju Gopi California Independent System Operator

Fred Heutte..... NW Energy Coalition

Ben Hutchins Power System Consultants, Inc.

Peter Jones Puget Sound Energy, Inc.

Lorissa Jones..... Bonneville Power Administration—Transmission

Lesley Kayser-Sprouse..... Hetch Hetchy Water and Power

Chelsea Loomis Western Power Pool

Peter Mackin..... GridBright, Inc.

Jesus Martinez..... Imperial Irrigation District

Valeriy Jr. Oleshko..... Western Area Power Administration

Nathan Powell..... Deseret Generation & Transmission Cooperative

Tracy Rolstad..... Public Utility District No. 2 of Grant County

Steve Schaarschmidt..... Colorado Springs Utilities

Erik Schellenberg Idaho Power Company

Robert Smith..... TransCanyon LLC

Chifong Thomas Thomas Grid Advisor

David Tovar..... El Paso Electric Company

Gary Trent..... Tucson Electric Power



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Jerod Vandehey..... Public Utility District No. 1 of Cowlitz County
Song Wang..... Portland General Electric Company
Kenneth Wilson Siemens Energy, Inc.

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
Robin Arnold..... Renewable Northwest
Ehsan Azordegan Kinectrics US
Nathan Barcic..... California Public Utilities Commission
Ian Beil..... Portland General Electric Company
Constance Bergmark Imperial Irrigation District
Charles Berry City of Lompoc
Mitchell Betonie Farmington Electric Utility System
Scott Beyer Western Power Pool
Jeffrey Billinton California Independent System Operator
Savina Blackman..... Clearway Energy Operating, LLC (NRG)
Brett Bodine Turlock Irrigation District
Chad Bowman..... Public Utility District No. 1 of Chelan County
Lindsay Briggs Black Hills Corporation
Marcus Brown..... NaturEner USA, LLC
Jeremy Brownrigg..... Platte River Power Authority
Shawn Carlson Basin Electric Power Cooperative
Andrew Chanko Guzman Power Markets, LLC
Tim Cherry Metropolitan Water District of Southern California
Tom Christensen..... Basin Electric Power Cooperative
Dennis Desmarais..... Copia Power DevCo, LLC



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Bryce DiningerCentral Arizona Water Conservation District
Gordon Dobson-Mack.....Powerex, Inc.
Rodica DonaldsonEDF Renewable Energy
Thomas DuanePublic Service Company of New Mexico
Kirsten Eliassen.....Gallatin Power Partners, LLC
Jared Ellsworth.....Idaho Power Company
Greg Engels British Columbia Utilities Commission
Jonathon Flores Los Angeles Department of Water and Power
Shaun FosterPortland General Electric Company
Jennifer GalawayPortland General Electric Company
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
Ryan HancockGrid Subject Matter Experts
Nadine Hanhan.....Oregon Public Utility Commission
Jeff HansonColorado Springs Utilities
Johanna Hanson..... Washington Department of Commerce - State Energy Office
David Hartman Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives)
Jonathan HayesSouthwest Power Pool
Bill Hosie..... PSI Power System Innovation Corp.
Ryan Hubbard..... Tri-State Generation and Transmission—Reliability
Rhett Hurless..... Absaroka Energy, LLC
Richard Jackson..... U.S. Bureau of Reclamation
Robert Jackson..... Burns & McDonnell (1898 and Co.)
Harley Johnson Tacoma Power



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Mike Johnson..... Pacific Gas and Electric Company
Holly Johnson.....City of Redding
Robert Jones..... Seattle City Light
Cathy Kim..... Copia Power DevCo, LLC
Eli King..... Washington Department of Commerce - State Energy Office
Ruth Kloecker..... ITC Grid Development, LLC
John Kyei..... TransCo Energy, LLC
Mike Larsen Public Utility District No. 1 of Cowlitz County
Josh LaurandeauNorthWestern Energy
Justin Lee.....Salt River Project
John Leland.....Northern Tier Transmission Group
Daniel Leon Power System Consultants, Inc.
John Liang..... Public Utility District No. 1 of Snohomish County
Todd Lichtas..... Tucson Electric Power
Patrick Ma..... Energy Exemplar, LLC
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
John D. Martinsen..... Public Utility District No. 1 of Snohomish County
Christopher McLean..... California Energy Commission
Diana McMahonSalt River Project
Jerry Melcher California Public Utilities Commission, Office of Ratepayer Advocates
Pete Mensonides Turlock Irrigation District
Keegan Moyer Energy Strategies
Julie Myerholtz.....First Solar
Ramya Nagarajan DesertLink, LLC
George Nail.....Public Service Company of New Mexico



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Tyler Nice..... Eugene Water & Electric Board
John Nierenberg..... Tacoma Power
Mike Nitido Tucson Electric Power
Denis Obiang..... Los Angeles Department of Water and Power
Andrey Olennikov Portland General Electric Company
Vishal Patel..... Southern California Edison Company
Dave Peck California Public Utilities Commission, Office of Ratepayer Advocates
Mateusz Pena Delta-Montrose Electric Association
Chris Pink Tri-State Generation and Transmission—Reliability
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
Rob Robertson..... Leeward Renewable Energy, LLC
Philip Roice..... Pend Oreille County PUD #1
Sam Rugel Tucson Electric Power
Matt Scheppers..... Platte River Power Authority
Tim Schiermeyer Transmission Agency of Northern California
Gretchen Schott..... Clearway Energy Operating, LLC (NRG)
Masoud Shafa..... California Department of Water Resources
Tom Siegel Longroad Energy Holdings, LLC
Hari Singh..... Public Service Company of Colorado (Xcel Energy)
Alejandro Solis El Paso Electric Company
Jonathan Stahlhut TransCo Energy, LLC
Rachel Stanford Utah Associated Municipal Power Systems
Quincy Stormer..... Electrical Consultants, Inc.
Jan Strack San Diego Gas and Electric



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Tom StuderFirst Solar
Spencer Tacke.....Auriga Corporation
Holly Taylor Western Interstate Energy Board
James Thompson First-LightEnergy
Mark Thompson TransCanada Energy Ltd.
Edwin Tso Metropolitan Water District of Southern California
Boris Tumarin..... Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives)
Guy Van UytvenGuy Van Uytven
Darrel G. VanCoevering EnTranTek LLC
Pushkar WagleFlynn Resource Consultants, Inc.
Jonathan Walcott..... Delta-Montrose Electric Association
Jeffery Watkins..... NV Energy
Lowell WatrosGrid Subject Matter Experts
Steve Wickel Public Utility District No. 1 of Chelan County
David Wiley..... Arizona Public Service Company
Scott Wilson.....Avista Corporation
Wes WingenBlack Hills Corporation
David WithrowCalifornia Public Utilities Commission
Jeff Wyman ITC Grid Development, LLC
Joanna Yang.....Puget Sound Energy, Inc.
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-LightEnergy



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Others in Attendance [Only for technical committees]

Rachel Allen Tacoma Power

Kale Almeida.....WECC

Amos Ang.....Southern California Electric

Daja BellWECC

Tanner Brier..... Bonneville Power Administration

Layne BrownWECC

Lorissa Cardoza Bonneville Power Administration

Kevin Conway.....Pend Oreille County PUD #1

Arkadeep Das.....WECC

Enoch Davies.....WECC

Kanya Dorland.....California Public Utilities Commission

Matt Evans.....WECC

Jennifer GardnerNational Audubon Society

Dave GroverWECC

Angela Hall.....Pend Oreille County PUD #1

Kevin Harris Pacific Northwest National Laboratory

Derek HawkinsSouthwest Power Pool

Chris HoffmanSalt River Project

Curtis HollandWECC

Vic HowellWECC

Michael Jang.....

Jon Jensen.....WECC

Jon Jensen.....WECC

Bhavana KatyalWECC

Tim Kedis..... Southern California Edison Company

Kenneth LewisCalifornia Public Utilities Commission

Richard MaguirePublic Utility District No. 2 of Grant County



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Richard Marrs Quantum Planning Group
Rafael Molano Bonneville Power Administration
Effat Moussa San Diego Gas and Electric
Victoria Ravenscroft WECC
Neil Robertson Southwest Power Pool
Katie Rogers WECC
Gary Simonson PacifiCorp
Mike Stussy Public Utility District No. 2 of Grant County
Aung Thant NERC
James Thornton Burns & McDonnell (1898 and Co.)
Juan Vincente El Paso Electric
Joanna Yang Puget Sound Energy

