

Day 1—June 28, 2023
1:00 to 5:00 p.m.

1. Welcome, Call to Order

Margaret Albright, Reliability Risk Committee (RRC) Co-chair, called the meeting to order at 1:00 p.m. MT on June 28, 2023. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Tim Reynolds, Risk Analysis Manager, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Ms. Albright introduced the proposed meeting agenda.

On a motion by Kevin Conway, the RRC approved the agenda.

4. Review and Approve Previous Meeting Minutes

Ms. Albright introduced the minutes from the meetings on February 28, 2023, and March 26, 2023.

On a motion by Grace Anderson, the RRC approved the minutes from February 28, 2023, and March 26, 2023, meetings.

5. Review Previous Action Items

Nicole Lee, Administrative Coordinator, reviewed action items carried over from the RRC meeting on March 26, 2023. Action items that are not closed and will be carried forward can be found [here](#).

6. PS and OAWG Charter Revisions

Mr. Reynolds, Daniel Baker, Performance Subcommittee (PS) Chair, and Asher Steed, Oscillations Analysis Work Group (OAWG) Chair, presented the revised PS and OAWG Charters.

On a motion made by Rich Hydzik, the RRC approved the PS and OAWG revised charters.



RRC Meeting Minutes—June 28–29, 2023

The [PS](#) and [OAWG](#) charters are posted on the WECC website.

7. NERC IRPS Information Sharing and Discussion

Rich Bauer, NERC, presented NERC's Inverter Based Resource Performance Subcommittee (IRPS) changing resource mix challenges.

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

8. Dec 7, 2022, Loss of Telecommunications Event

Mario Kirsch, Southern California Edison, presented the December 7, 2022, loss of telecommunications event.

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

9. Review and Discuss Initial List of Risks

Mr. Reynolds and Scott Brooksby, Senior Cyber Risk Advisor, presented the initial list of risks and accepted feedback on them from the RRC. The RRC will be provided a list of the risks in a spreadsheet format so that members can provide feedback. Mr. Reynolds encouraged the RRC to review the list and provide comments no later than July 31.

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

10. Performance Analysis Strike Team Update

James Hanson, Operations Analysis Manager, presented an update on the Performance Analysis (PA) Strike Team. Mr. Hanson will provide an additional update during the October RRC meeting.

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

Day 2—June 29, 2023

8:00 a.m. to 12:00 p.m.

11. Discuss WECC Meeting Minute Changes

Chris Albrecht, Assistant General Counsel, led the discussion on WECC's meeting minute documentation process. The purpose of meeting minutes is to capture major discussions on what happened and why, along with what business was conducted. Concern was expressed about capturing debates and discussions. Mr. Albrecht reiterated that the purpose of the minutes is to capture key components and not a transcript of what was said. They will also include key points that were debated and if consensus is not achieved, it will also be documented.



12. PTF Information Sharing

Vic Howell, Reliability Risk Management Director, gave a presentation on the Path Task Force (PTF) report and recommendations. The purpose of the presentation was to ensure this information was shared with a broad audience.

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

13. Review and Discuss Path Forward on OC/MIC Strike Team Recommendations

Mr. Howell presented the path forward recommendations for Operating Committee (OC) and Market Interface Committee (MIC). The RRC discussed the importance of RRC subgroups reporting risks and trends to the RRC. The RRC agreed to have standing agenda items for the Reliability Coordinator's (RC) to discuss new or prominent reliability or security risks that are being seen. Mr. Howell will reach out to the RCs to prepare for the RRC's October meeting. Tanner Brier, Bonneville Power Administration (BPA), will contact Andy Meyers, BPA, to get the background information on Maintain Merchant Alert Protocol (MAP) and it will be discussed further during the October RRC meeting.

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

14. Three-year Work Plan Report-Outs

Mr. Howell provided an update on the RRC outreach. Several groups have been contacted and outreach should be complete by October. Mr. Howell encouraged the members to reach out to him if there is interest in presenting.

Mr. Howell discussed the committee structure. The RRC leadership will follow up with the Joint Guidance Committee to obtain an update on when the new committee structure and name changes will be updated on the WECC website.

John Graminski, Senior Cyber Security Specialist, presented the Cyber Security three-year work plan item.

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

Steve Ashbaker, Reliability Initiative Director, presented an update on the extreme natural event's three-year work plan. The RRC discussed continuing with this scope of work and asked for an update during the next RRC meeting.

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

Greg Park, Event and Performance Analysis Subcommittee Chair, gave an update on the Inverter-Based Resource's (IBR) best practices three-year work plan item.



RRC Meeting Minutes—June 28-29, 2023

Mr. Reynolds provided an update on the extreme variable energy resource impacts to Operations Reliability three-year work plan item. There will be a meeting later today to review the analysis. WECC has two interns that will be working on it for the next ten weeks.

Mr. Bauer, provided an update on investigating long duration frequency deviations. Additional information will be provided the next RRC meeting.

Mr. Howell provided an update on examining the current energy adequacy assessment practice three-year work plan item. The decision was made to pause work on this item but to continue following the standard development progress. This decision was made due to stakeholders limited resources to dedicate the time needed.

The RRC discussed the three-year workplan and how it is maintained. Prior to each RRC meeting, Mr. Howell will request updates from the three-year workplan owners and post an updated spreadsheet on the RRC's website.

15. RRC and RAC Coordination

Mr. Howell led the discussion on the coordination between the RRC and Reliability Assessment Committee (RAC). Both of their charters state that they will coordinate together. The co-chairs and liaisons are going to meet monthly and will provide updates to the RRC and RAC.

The RRC discussed the next RRC and RAC meetings. The RAC is holding a virtual only meeting during October and will provide one hybrid meeting next year. The RRC agreed to hold a virtual meeting in October to align with RAC and to allow travel time for the NERC Conference.

16. Public Comment

No comments were made.

17. Review New Action Items

- Provide a Strike Team update at the October RRC meeting.
 - Assigned To: James Hanson
 - Due Date: October 24, 2023
- Review the initial risks and provide comments to Tim Reynolds by July 31.
 - Assigned To: RRC Membership
 - Due Date: July 31, 2023
- Have standing agenda item for the RCs to discuss new or prominent reliability or security risks.
 - Assigned To: Vic Howell and Nicole Lee
 - Due Date: October 24, 2023



RRC Meeting Minutes—June 28-29, 2023

- Contact Andy Meyers, BPA, to get the background information on MAP. Discuss the topic at the October RRC meeting.
 - Assigned To: Tanner Brier
 - Due Date: October 24, 2023
- Work internally at WECC to ensure that the committee webpages are updated to reflect the new committee structure.
 - Assigned To: Vic Howell
 - Due Date: October 24, 2023

18. Upcoming Meetings

October 24-25, 2023..... Virtual

19. Adjourn

Ms. Albright adjourned the meeting without objection at 11:50 a.m.



RRC Meeting Minutes—June 28–29, 2023

Exhibit A: Attendance List

Members in Attendance

Margaret Albright.....Bonneville Power Administration—Transmission
Rachel Allen Tacoma Power
Grace Anderson California Energy Commission
Ruben Arredondo.....Regime LLC
Allison Aud-Hill Southern California Edison Company
Eric Baran..... Western Interstate Energy Board
Marian Bonar.....Gallatin Power Partners, LLC
Tanner Brier..... Bonneville Power Administration
Darren Buck..... Platte River Power Authority
Lorissa Cardoza Bonneville Power Administration
Ani ChopraMATL Canada L.P.
Kevin Conway.....Pend Oreille County PUD #1
Cory Danson.....Western Area Power Administration
Kathee Downey.....PacifiCorp
Sean Erickson Western Area Power Administration
Angela Hall.....Pend Oreille County PUD #1
Chris HofmannSalt River Project
Raj Hundal.....Powerex, Inc.
Richard Hydzik.....Avista Corporation
Michael Jang Seattle City Light
Tim Kedis..... Southern California Edison Company
Ping-Kwan KeungAlberta Electric System Operator
Mario Kiresich..... Southern California Edison Company
Chelsea LoomisWestern Power Pool
Nicole Manalili..... British Columbia Utilities Commission
Jesus Martinez..... City of Riverside



RRC Meeting Minutes—June 28-29, 2023

Russell A. Noble Public Utility District No. 1 of Cowlitz County
Greg Park Western Power Pool
Nathan Powell..... Portland General Electric Company
Sam Rugel Tucson Electric Power
Steve Schaarschmidt..... Colorado Springs Utilities
Kenneth Silver Avantis
Evan Sorrell Puget Sound Energy, Inc.
Chifong Thomas Thomas Grid Advisor
Juan Vincente El Paso Electric Company
Jessica Zamonis Western Power Pool
Quinten Ziegler..... Transmission Agency of Northern California

Organizations not in Attendance

Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives), Arizona Public Service Company, British Columbia Hydro and Power Authority, British Columbia Ministry of Energy and Mines, California Department of Water Resources, California Independent System Operator, Cambridge Energy Solutions, Cascade Renewable Transmission, LLC, Cat Creek Energy, LLC, City of Burbank, City of Lompoc, City of Pasadena, Clearway Energy Operating, LLC (NRG), Copia Power DevCo, LLC, CP Energy Marketing (US) Inc., DataCapable Inc., Delta-Montrose Electric Association, DesertLink, LLC, Electric Power Research Institute, Eugene Water & Electric Board, Farmington Electric Utility System, First-LightEnergy, FortisBC, Inc., Grid Numerics, Grid Subject Matter Experts, Gridforce Energy Management, LLC, Guy Van Uytven, Guzman Power Markets, LLC, Hetch Hetchy Water and Power, Idaho Power Company, Imperial Irrigation District, Los Angeles Department of Water and Power, MCE, Modesto Irrigation District, NextEra Energy Resources, LLC, NV Energy, Open Access Technology International, Oregon Public Utility Commission, Pacific Gas and Electric Company, Pacific Northwest National Laboratory, PacifiCorp Merchant Function, Power System Consultants, Inc., Public Service Company of Colorado (Xcel Energy), Public Utility District No. 1 of Snohomish County, Public Utility District No. 2 of Grant County, Quanta Technology, LLC, Renewable Northwest, Sacramento Municipal Utility District, San Diego Gas and Electric, TransCo Energy, LLC, Tri-State Generation & Transmission–Power Management Division, Tri-State Generation and Transmission—Reliability, Turlock Irrigation District, Utah Division of Public Utilities, Utilicast L.L.C., Utility Services, Inc., Washington Department of Commerce - State Energy Office.



RRC Meeting Minutes—June 28-29, 2023

Others in Attendance

Kale Almeida.....WECC

Steve AshbakerWECC

Rich Bauer..... NERC

Scott Brooksby.....WECC

Travis English.....WECC

Matt Evans.....WECC

John GraminskiWECC

Dave GroverWECC

Atighechi Hamid Powerex Corp

James Hanson.....WECC

Derek HawkinsSouthwest Power Pool

Curtis HollandWECC

Vic HowellWECC

Nicole LeeWECC

Richard Marrs Quantum Planning Group

Juan Martinez..... Kevin Conway

Evan Paull.....WECC

Bert Peters.....WECC

Kirha QuickWECC

Victoria Ravenscroft.....WECC

Tim ReynoldsWECC

Neil RobertsonSouthwest Power Pool

Asher Steed..... British Columbie Hydro and Power Authority

Aung Thant..... NERC

Jarod VandeheyPublic Utility District No. 1 Cowlitz County

Ivan VelascoRiverside Public Utilities

Kenneth Wilson





Reliability Risk Committee
DRAFT Meeting Minutes
Virtual

