## Welcome, Call to Order

Robby Anderst, Underfrequency Load Shedding Work Group (UFLSWG) Chair, called the meeting to order at 2:05 p.m. MT on January 10, 2023. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

## Review WECC Antitrust Policy

Kent Bolton, Senior Engineer System Stability, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

## Approve Agenda

Mr. Anderst introduced the proposed meeting agenda.

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

## Review and Approve Previous Meeting Minutes

Mr. Anderst introduced the minutes from the meeting on December 13, 2022.

**By consensus, the UFLSWG approved the minutes from December 13, 2022.**

## Review Previous Action Items

Marie Smith, Administrative Coordinator reviewed action items carried over from the **UFLSWG** meeting on December 13, 2022. Action items that are not closed and will be carried forward can be found [here](https://www.wecc.org/Administrative/UFLSWG%20Action%20Items.pdf).

## Charter Discussion

Mr. Bolton led the discussion on the UFLSWG Charter changes made by the Joint Guidance Committee (JGC). The JGC decided that the UFLSWG would remain a work group. There will be an assessment that should occur every two years or five years of the group determined by the Reliability Assessment Committee (RAC). The RAC will work with the work group to decide on the structure of the UFLSWG.

The UFLSWG discussed the annual underutilization data that is normally reviewed by WECC staff and whether this item should be removed from the charter. Further discussion was held regarding biometrics, how things change each year and, whether it should remain in the charter and process document. The UFLSWG will be involved, but WECC staff will handle the questions regarding data. Mr. Bolton will obtain further information regarding this issue from WECC’s management.

The charter is posted to the [closed team site](https://www.wecc.org/Administrative/UFLSTF%20Charter.docx).

## Methodology Document

Mr. Bolton led the discussion on the methodology document. During the last UFLSWG meeting, a discussion was held on changing the name from Methodology to Method document. This name is accepted industry wide. Mr. Bolton had a discussion with the technical writer, and it was determined that the UFLSWG should keep this document the same.

The original version of the methodology document is posted on the web page. It needs to be updated. The UFLSWG members should review this document and provide feedback. Please email your comments to Mr. Anderst and Mr. Bolton before the next UFLSWG meeting on January 24, 2023.

## V/Hz list in Assessment Report

The UFLSWG discussed why the v/Hz cannot be added to the master dynamic model modification. It stated to add the v/Hz cards for monitoring. There is not a significant number of cards added, and the work group may need to ask the System Review Subcommittee (SRS) this question. The UFLSWG discussed whether we were asking them to prepare additional base cases. Mr. Bolton stated we are not doing these base cases.

Mr. Bolton moved to add this to the future discussions.

## Public Comment

There were no comments.

## Review New Action Items

There were no new action items to review.

## Upcoming Meetings

January 24, 2023 Virtual

February 7, 2023 Virtual

February 21, 2023 Virtual

## Adjourn

Mr. Anderst adjourned the meeting without objection at 2:46 p.m.

## **Exhibit A: Attendance List**

### Members in Attendance

Robby Anderst Puget Sound Energy, Inc.

Daniel Cervantes Los Angeles Department of Water and Power

Gary Farmer Western Area Power Administration

Curt Feinberg Tri-State Generation and Transmission—Reliability

Matthew Gomez Southern California Edison Company

Daniel Johnson Jr. Black Hills Corporation

Jay Largo Bonneville Power Administration

Ralph Liu Alberta Electric System Operator

Danny Miranda Arizona Public Service Company

Nima Miri Seattle City Light

Tyler Pearce Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives)

Mark Pigman Tacoma Power

Karen Reedy Public Service Company of New Mexico

Rene Romo de Santos California Independent System Operator

Prabal Singh Sacramento Municipal Utility District

GuiHua Wang British Columbia Hydro and Power Authority

### Members not in Attendance

Scott Beyer Western Power Pool (formerly Northwest Power Pool Corporation)

Dennis Chesnakov Public Utility District No. 2 of Grant County

Fangfang Du PacifiCorp

Alex Ford NV Energy

Christopher Fuchs California Independent System Operator

Jennifer Galaway Portland General Electric Company

Mensur Haskovic Western Area Power Administration

Richard Hydzik Avista Corporation

Todd Lichtas Tucson Electric Power

Nik Mikelsons Portland General Electric Company

Patrick Perry Idaho Power Company

David Quashie Public Utility District No. 1 of Snohomish County

Atique Rahman Los Angeles Department of Water and Power

Anthony Rendon Salt River Project

Bill Robertson Salt River Project

Milton Savier Pacific Gas and Electric Company

Hari Singh Public Service Company of Colorado (Xcel Energy)

Dwane Small Public Utility District No. 1 of Snohomish County

Dede Subakti California Independent System Operator

Gary Trent Tucson Electric Power

Nathan Wilson PacifiCorp

Han Yu British Columbia Hydro and Power Authority

Janice Zewe Sacramento Municipal Utility District

Songzhe Zhu GridBright, Inc.

### Others in Attendance [Only for technical committees]

Kent Bolton WECC

Jonathan Hayes Southwest Power Pool

Scott Jordan Southwest Power Pool

Anne Kronshage Public Utility District No. 1 of Chelan County

Christopher Lamb Public Utility District No.1 of Chelan County

Kimmy McIntyre Portland General Electric Company

Marie Smith WECC

Jim Smith Bonneville Power Administration