



Underfrequency Load Shedding Work Group

Meeting Minutes

March 21, 2023

Virtual

1. Welcome, Call to Order

Robby Anderst, Underfrequency Load Shedding Work Group (UFLSWG) Chair, called the meeting to order at 2:00 p.m. MT on March 21, 2023. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

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

3. Approve Agenda

Mr. Anderst introduced the proposed meeting agenda.

By consensus, the UFLSWG approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Anderst introduced the minutes from the meeting on March 7, 2023.

By consensus, the UFLSWG approved the March 7, 2023, minutes.

5. Review Previous Action Items

Marie Smith, Administrative Coordinator, reviewed action items carried over from the UFLSWG meeting on March 7, 2023. Action items that are not closed and will be carried forward can be found [here](#).

6. Methodology Document

Mr. Anderst presented the Methodology Document. The UFLSWG reviewed the document and discussed which parts need to be revised.

Mr. Anderst commented to add a footnote drawing comparison between the generator frequency ride through models, to the ones we are including with the MBF, to the PRSC-24 models the one that running with these simulations.



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Mr. Anderst commented on a section to be added on what generators were to be tripped. He stated that we are seeking PC input on which generators in the area are to be tripped by us. There was another section added by Mr. Bolton and me on unsuccessful assessment results. It is being reviewed for hertz violations or unstable generators. We will reach out to the necessary PC's copying the Studies Subcommittee (StS) and the Reliability Assessment Committee (RAC) members of the entity to come to a conclusion.

Mr. Bolton will reach out to NERC and see how other groups in the region are performing assessments.

Approval of the UFLSWG Methodology Document has been postponed until the next meeting.

7. Public Comment

Tyler Pearce, Arizona Electric Power Cooperative, Inc., asked if there is an assigned team to complete the UFLS assessments.

Mr. Anderst stated that is pending and the RAC will discuss this topic.

Mr. Pearce would like to know, if we will provide training for people providing their own frequency load shed. He suggested to have an "Open Training Session" on this topic.

Mr. Bolton stated Tyson Niemann will put together a presentation on how they ran these assessments.

Mr. Anderst stated that if anyone wants to be added to the group, they can let the UFLSWG know today.

Mr. Anderst needs assistance from the System Review Subcommittee (SRS) and he will seek out their help.

Mr. Bolton stated a group that deals with CEII requests should be distributed to the appropriate person. He will find out more information on this topic.

8. Review New Action Items

- Post Methodology Document to the Team Site
 - Assigned To: Kent Bolton
 - Due Date: April 4, 2023

9. Upcoming Meetings

April 4, 2023.....	Virtual
April 18, 2023.....	Virtual
May 2, 2023.....	Virtual



10. Adjourn

Mr. Anderst adjourned the meeting without objection at 3:02 p.m.



Exhibit A: Attendance List

Members in Attendance

Robby Anderst Puget Sound Energy, Inc.
Scott Beyer Western Power Pool
Daniel Cervantes..... Los Angeles Department of Water and Power
Fangfang Du..... PacifiCorp
Curt Feinberg Tri-State Generation and Transmission—Reliability
Alex Ford NV Energy
Christopher Fuchs California Independent System Operator
Matthew Gomez Southern California Edison Company
Mensur Haskovic..... Western Area Power Administration
Jay Largo Bonneville Power Administration
Ralph Liu Alberta Electric System Operator
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
Anthony Rendon Salt River Project
Rene Romo de Santos..... California Independent System Operator
Hari Singh..... Public Service Company of Colorado (Xcel Energy)
Prabal Singh..... Sacramento Municipal Utility District
Dwane Small Public Utility District No. 1 of Snohomish County
Rick Torres..... Imperial Irrigation District
GuiHua Wang British Columbia Hydro and Power Authority
Han Yu British Columbia Hydro and Power Authority

Members not in Attendance

Ian Beil..... Portland General Electric Company
Zachary Beus Puget Sound Energy, Inc.



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Dennis Chesnakov.....Public Utility District No. 2 of Grant County
Gary FarmerWestern Area Power Administration
Richard Hydzik.....Avista Corporation
Daniel Johnson Jr.Black Hills Corporation
Todd Lichtas.....Tucson Electric Power
Jesus Martinez.....Imperial Irrigation District
Kimberly McIntyrePortland General Electric Company
Nik MikelsonsPortland General Electric Company
Patrick Perry.....Idaho Power Company
David QuashiePublic Utility District No. 1 of Snohomish County
Atique RahmanLos Angeles Department of Water and Power
Bill Robertson.....Salt River Project
Milton SavierPacific Gas and Electric Company
Dede SubaktiCalifornia Independent System Operator
Gary Trent.....Tucson Electric Power
Nathan WilsonPacifiCorp
Janice Zewe.....Sacramento Municipal Utility District
Songzhe Zhu.....GridBright, Inc.

Others in Attendance

Nathan Bean.....Southwest Power Pool
Kent Bolton.....WECC
James Jang.....Bonneville Power Administration
Scott JordanSouthwest Power Pool
Robin Manuguid.....San Diego Gas & Electric
Milton SavierPacific Gas & Electric Company
Marie SmithWECC
Matthew TruscottPublic Utility District No. 2 of Grant County
Chad Wang.....British Columbia Hydro and Power Authority

