

1. Welcome, Call to Order

Asher Steed, Oscillations Analysis Work Group (OAWG) Co-chair, called the meeting to order at 2:33 p.m. MT on April 30, 2024. A quorum was not present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Evan Paull, Operations Analysis Staff Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Mr. Steed introduced the proposed meeting agenda.

Dan Goodrich, Bonneville Power Administration, informed the group that he was prepared to share information on recent oscillation events. Serena Stiehl, Administrative Coordinator, updated the agenda to include the new agenda topic.

By consensus, the OAWG approved the agenda as amended.

The 2024-04-30 OAWG Agenda was amended as follows:

- The agenda topic “Recent Oscillation Events—Dan Goodrich, BPA” was added.

4. Review and Approve Previous Meeting Minutes

This item will be postponed to the next OAWG meeting as a quorum was not present to approve the previous minutes.

5. Review Previous Action Items

Ms. Stiehl reviewed action items carried over from the OAWG meeting on May 9, 2023. Action items that are not closed and will be carried forward can be found [here](#).

6. Mode Meter Algorithm

Jim Follum, Pacific Northwest National Laboratory (PNNL), presented on the Mode Meter Algorithm. PNNL will continue to evaluate potential updates to the transient detection

algorithm to handle sequential disturbances and evaluate PNNL’s algorithm for avoiding mode meter bias due to forced oscillations.

7. Recent Oscillation Events—Dan Goodrich, BPA

Mr. Goodrich shared information on recent oscillation events from February 2024. Bonneville Power Association (BPA) submitted the information on the oscillation event as a risk to WECC, and BPA will continue to monitor the PNNL research on forced oscillations, give and receive two-second Inter-Control Center Communications Protocol (ICCP) Data from CAISO, and adjust Operating Procedures for south-to-north flows.

8. Open OAWG Co-chair Position

Mr. Paull reminded the group of the open co-chair position for the OAWG. Anyone who is interested in the position should contact Mr. Paull via email.

9. Charter Review and Performance Subcommittee Engagement

The OAWG reviewed the updates to the subcommittee charter and discussed how to further its engagement with the Performance Subcommittee (PS). Mr. Steed will follow up with the PS on how to connect on updates and communication.

10. Public Comment

Mr. Paull informed the OAWG that it has received all the permissions necessary for the WECC Communications team to send out permission requests regarding data for the Modes paper update that is being led by Jim Follum, PNNL, and Dan Trudnowski, Montana Tech.

11. Review New Action Items

- Connect with the Performance Subcommittee regarding regular updates and communication.
 - Assigned To: Asher Steed
 - Due Date: June 30, 2024
- Send out a doodle poll to determine the best time for a new regular meetings frequency for both closed and open sessions.
 - Assigned To: Evan Paull
 - Due Date: June 30, 2024

12. Upcoming Meetings

TBD Virtual



13. Adjourn

Mr. Steed adjourned the meeting without objection at 3:35 p.m.



Exhibit A: Attendance List

Members in Attendance

Eric Desjardins British Columbia Hydro and Power Authority
Daniel Duran Bonneville Power Administration
Xiaoyuan Fan Pacific Northwest National Laboratory
Jim Follum Pacific Northwest National Laboratory
Daniel Goodrich Bonneville Power Administration—Transmission
Alex Ning Avangrid Renewables
Evan Paull WECC
Asher Steed British Columbia Hydro and Power Authority

Members not in Attendance

Urmila Agrawal California Independent System Operator
Djordie Atanackovic British Columbia Hydro and Power Authority
Hassan Baklou San Diego Gas and Electric
Bharat Bhargava Unaffiliated
Ray Byrne National Nuclear Security Administration—Sandia National Laboratories
Jeff Dagle Pacific Northwest National Laboratory
Deepjyoti Deka National Nuclear Security Administration—Los Alamos National Laboratory
Jose Diaz Los Angeles Department of Water and Power
Ashley Donahoo Bonneville Power Administration
Luke Dosiek Union College
Ryan Elliott National Nuclear Security Administration—Sandia National Laboratories
Sean Erickson Western Area Power Administration
Licheng Jin California Independent System Operator
Harry Lee British Columbia Hydro and Power Authority
Hongtao Ma North American Electric Reliability Corporation
Gage Marek Bonneville Power Administration—Transmission
Ron Markham Pacific Gas and Electric Company



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Slava Maslennikov.....ISO New England
George Nail.....Public Service Company of New Mexico
Michael NugentSouthwest Power Pool
Cody Parker.....Southwest Power Pool
Shawn Patterson U.S. Bureau of Reclamation
John Pierre University of Wyoming
Brian Pierre..... National Nuclear Security Administration—Sandia National Laboratories
Matthew Rhodes.....Salt River Project
Sergio Rodriguez-FloresSalt River Project
Armando Salazar Southern California Edison Company
David Schoenwald..... National Nuclear Security Administration—Sandia National Laboratories
Amanuel Selassie..... Los Angeles Department of Water and Power
Kai Sun University of Tennessee
Dan Trudnowski..... Montana Tech
Frank Tuffner Pacific Northwest National Laboratory
Mani Venkatasubramanian..... Washington State University
Song Wang.....Portland General Electric Company
Josh Wells..... Tucson Electric Power
Kris Womack..... Bonneville Power Administration
Ellen (Ling) Wu.....Unaffiliated
Ran Xu.....California Independent System Operator
Steve YangBonneville Power Administration—Transmission
Michael Yao British Columbia Hydro and Power Authority
Jimmy Zhang.....Alberta Electric System Operator
Gang Zheng..... GE Verona (GE Energy Consulting Group)
Ning Zhou Binghamton University

Others in Attendance [Only for technical committees]

Aleska Babic Western Area Power Administration



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Jared Bestebreur..... Schweitzer Engineering Laboratories, Inc.
David Daigle.....California Independent System Operator
Tim KendziorskiNV Energy
Arif Khan Schweitzer Engineering Laboratories, Inc.
Evan Mickelson.....North American Electric Reliability Corporation
Serena StiehlWECC
Josh Wold..... Schweitzer Engineering Laboratories, Inc.

