

1. Welcome, Call to Order

Asher Steed, Oscillation Analysis Work Group (OAWG) Chair, called the meeting to order at 11:02 a.m. MT on May 9, 2023. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Evan Paull, WECC 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.

By consensus the OAWG, approved the agenda.

4. PSC/OAWG Update and Charter—Evan Paull/Tim Reynolds

The group decided to keep the Performance Work Group (PWG) and OAWG as separate groups. The Protection and Control Subcommittee will keep its name and function, and it will report to the Reliability Risk Committee.

5. Recent Oscillations—Asher Steed, BCHA

Mr. Steed discussed recent oscillations and found SCADA issues.

Daniel Goodrich, Bonneville Power Administration (BPA), discussed oscillation issues on BPA's system.

6. SCE Oscillation Case from February—David Piper, SCE

David Piper, Southern California Edison (SCE), discussed a large voltage oscillation caused by an inverter-based resource in the area.

The event was closed by the OAWG.

7. BPA Annual Probing Test—Dan Goodrich, BPA

Mr. Goodrich discussed an annual probing test.

Michael Yao asked for a spreadsheet listing the details on what is injected into the system.

Dan Trudnowski will send this file in a spreadsheet to Mr. Yao.

8. WIMRG follow-up/MT and BC Modes—Jim Follum and Dan Trudnowski

Mr. Trudnowski wants to update the “Modes of Inter-Area Power Oscillations in the Western Interconnection” report by performing studies listed in the future work recommendations numbers 2 and 3. He will work with Jim Follum to create a list of events to request data for, and use the BPA probing test data as well. He would like to work with BPA and BC Hydro. Mr. Steed is willing to help on these datasets.

Mr. Trudnowski will look at data with Dan and work with Evan Paull on this item.

9. Review New Action Items

- Schedule series of OAWG meetings
 - Assigned To: Evan Paull
 - Due Date: May 10, 2023
- Schedule a closed session meeting
 - Assigned To: Evan Paull
 - Due Date: May 10, 2023

10. Upcoming Meetings

TBD Virtual

11. Adjourn

Mr. Steed adjourned the meeting without objection at 12:03 p.m.



Exhibit A: Attendance List

Members in Attendance

Hassan Baklou..... San Diego Gas and Electric
Eric Desjardins British Columbia Hydro and Power Authority
Jose Diaz..... Los Angeles Department of Water and Power
Daniel Duran..... Bonneville Power Administration
Xiaoyuan Fan..... Pacific Northwest National Laboratory
Jim Follum Pacific Northwest National Laboratory
Daniel Goodrich.....Bonneville Power Administration—Transmission
Slava Maslennikov.....ISO New England
Michael NugentSouthwest Power Pool
Shawn Patterson U.S. Bureau of Reclamation
Evan Paull.....WECC
John Pierre University of Wyoming
Sergio Rodriguez-FloresSalt River Project
Armando Salazar Southern California Edison Company
Asher Steed..... British Columbia Hydro and Power Authority
Dan Trudnowski..... Montana Tech
Michael Yao British Columbia Hydro and Power Authority

Members not in Attendance

Urmila AgrawalCalifornia Independent System Operator
Djordie Atanackovic..... British Columbia Hydro and Power Authority
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
Ashley Donahoo Bonneville Power Administration
Luke Dosiek..... Union College



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Ryan ElliottNational Nuclear Security Administration - Sandia National Laboratories
Sean EricksonWestern Area Power Administration
Licheng JinCalifornia Independent System Operator
Harry LeeBritish Columbia Hydro and Power Authority
Hongtao Ma.....North American Electric Reliability Corporation
Gage MarekBonneville Power Administration—Transmission
Ron MarkhamPacific Gas and Electric Company
George Nail.....Public Service Company of New Mexico
Alex Ning.....Avangrid Renewables
Cody Parker.....Southwest Power Pool
Brian PierreNational Nuclear Security Administration - Sandia National Laboratories
Matthew Rhodes.....Salt River Project
David Schoenwald.....National Nuclear Security Administration - Sandia National Laboratories
Amanuel Selassie.....Los Angeles Department of Water and Power
Kai SunUniversity of Tennessee
Frank TuffnerPacific Northwest National Laboratory
Mani Venkatasubramanian.....Washington State University
Song Wang.....Portland General Electric Company
Josh Wells.....Tucson Electric Power
Diana Wilson.....Alberta Electric System Operator
Kris Womack.....Bonneville Power Administration
Ellen (Ling) Wu.....Unaffiliated
Ran Xu.....California Independent System Operator
Steve YangBonneville Power Administration—Transmission
Jimmy Zhang.....Alberta Electric System Operator
Gang Zheng.....GE Verona (GE Energy Consulting Group)
Ning ZhouBinghamton University



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Others in Attendance [Only for technical committees]

Nagy Abed..... Southern California Edison Company
Ben Hammer Western Area Power Administration
CJ Jing..... Southern California Edison Company
Arif Khan Schweitzer Engineering Laboratories, Inc.
Kaveri Mahapatra..... Pacific Northwest National Laboratory
Neeraj Nayak..... Electric Power Group
David Piper..... Southern California Edison Company
Logan Pokallus..... Western Area Power Administration
David Szumlas Southern California Edison Company

