

Establishment and Authority

The Oscillation Analysis Work Group (OAWG) was established by the Joint Synchronized Information Subcommittee (JSIS). The OAWG now exists under the Performance Subcommittee (PS).

Purpose and Responsibilities

The purpose of the OAWG is to develop technical guidelines on system oscillation analysis, real-time monitoring, and recommend best practices on applying software tools for system oscillation detection and oscillation source locating.

Oscillations are inherent phenomena in power systems. The nature of oscillations includes electromechanical rotor oscillations associated with interconnected synchronous generators, control system oscillations ranging from Automatic Generation Control (AGC) and governor hunting to excitation control oscillations, and torsional and sub-synchronous oscillations.

System planners and operators need tools (i) to detect and monitor oscillations, (ii) to analyze oscillation properties, (iii) to model oscillation phenomena in system studies, (iv) to develop mitigation solutions including system reinforcements, control tuning, and operating procedures.

The OAWG is responsible for:

1. Creating guidelines for WECC regarding procedures, methods, techniques, and tools for detecting and analyzing oscillations, and locating forced oscillation sources in power systems.
2. Developing, testing, benchmarking, and recommending settings and validating real-time applications for oscillation detection and monitoring.
3. Analyzing power oscillation events.
4. Preparing test plans and analyzing system tests, such a Chief Joseph brake insertion and PDCI probing tests.
5. Facilitating the collection and exchange of data, both actual recording and simulations, for oscillation analysis and forced oscillation source locating.
6. Performing other tasks as appointed by PS.

Committee Composition and Governance

1. Membership

- a. The OAWG will be composed of members from WECC Member organizations working in monitoring and analyzing oscillation modes.
- b. Members will be selected by their organization's PS representative or by their organization's WECC Member Representative if no PS representative exists.
 - i. WECC Member organizations may have multiple members on the OAWG.
 - ii. Notice of selection should be sent to the co-chairs (or designee).
- c. Members will serve until they resign or until a successor has been selected.
- d. The OAWG will also include a liaison, appointed by WECC management, as a member.
- e. Committee members who miss three or more consecutive meetings will be removed from the committee.

2. Leadership

- a. The chair of the PS will approve two of the OAWG members to serve as the co-chairs.
 - i. The co-chairs will manage the committee and its meetings.
- b. The co-chairs will each hold office for a staggered term of two years, or until a successor has been duly appointed. The co-chairs may serve multiple terms.
- c. WECC staff will partner with the co-chairs to manage the committee and its meetings, plan the agenda, and coordinate efforts with the other technical committees to ensure alignment with WECC staff work plans and priorities.
- d. WECC staff will prepare minutes of OAWG meetings for the committee's approval.
- e. The co-chairs may appoint a steering committee that will assist with meeting agendas and action recommendations. The steering committee will include the vice chair, WECC liaison, subgroup chairs, and may include other members.

3. Meetings

- a. The OAWG will meet as often as required to carry out its responsibilities.
 - i. Meetings will be held according to the WECC Meeting Policy.
 - ii. OAWG meetings may be in-person, virtual, a combination of the two (hybrid), or by conference call, as determined by the co-chairs.
 - iii. Meetings will be open to the public except as otherwise approved according to Board policy.
 - iv. A quorum for meetings will be committee members representing a third of WECC Member organizations with committee members on the committee.



- b. The OAWG will strive to make all decisions by consensus. If consensus is not possible, action taken by the OAWG will require a majority vote of the members present.
 - i. Voting may be by any means the co-chairs determine appropriate.
 - ii. Voting must take place in a noticed meeting.
 - iii. OAWG members may not vote by proxy or absentee ballot.
 - iv. Each WECC Member organization may only have one vote.
 - v. Members who vote in the minority regarding an approval item should provide an explanation for their vote. This explanation or a summary will be included in the minutes.
- c. WECC will give notice to each member of the OAWG of the time and place of all meetings and will post notice of all meetings on the WECC website. Notice will be given no less than:
 - 30 calendar days before in-person and hybrid meetings.
 - 10 calendar days before virtual meetings and conference calls.
- d. An agenda and the items for which action may be taken, will be posted no less than:
 - 10 calendar days before in-person and hybrid meetings.
 - Three calendar days before virtual meetings and conference calls.
- e. Any person who wants notice of OAWG meetings may notify the WECC liaison. WECC will then email the notice of future meetings to that person when the committee members receive the notice.
- f. The OAWG has been approved by the Board to hold closed sessions and by the WECC General Counsel to hold Western Interconnection Data Sharing Agreement (WIDSA) sessions. Closed and WIDSA sessions must be held according to the procedures and requirements in the Board Policy on Closed and WIDSA Sessions.

Reporting

The OAWG will report to the PS on its activities and any recommendations.

Review and Changes to the Charter

The OAWG will review this charter every three years or as needed and discuss any changes with the Joint Guidance Committee (JGC). The OAWG will then make a recommendation to the PS for approval.

	Committee	Date
Approved	RRC	May 26, 2023
Endorsed	JGC	May 5, 2023



Reviewed		
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