

## **Establishment and Authority**

The Modeling and Validation Subcommittee (MVS) was established by the Reliability Assessment Committee (RAC).

## **Purpose and Responsibilities**

The purpose of the MVS is to review, recommend, develop, and validate system models used to support reliability assessments and other modeling tools (excluding production cost models) that advance the mission of WECC.

The MVS will:

1. Review dynamic models used to represent existing and evolving power system equipment in the stability programs used by WECC, and recommend updates as appropriate.
2. Design and document new models, as required. Specify validation testing criteria and procedures. Validate model implementation in the stability programs used by WECC.
3. Develop documentation, user guides, and data preparation tools for new models as needed.
4. Explore, evaluate, and recommend new system modeling techniques that may be of interest to WECC.
5. Develop methods, guidelines, and requirements for validation of power system equipment models.
6. Maintain and update the WECC Approved Dynamic Models Library as directed by the RAC.
7. Validate system modeling and performance by comparing real system events and system tests against simulations.
8. Maintain and review a master dynamic model database and maintain the log of model data issues.
9. Collaborate with other RAC work groups, subcommittees, and other stakeholders as needed.
10. Organize workshops to train WECC members regarding power system modeling and representation practices.
11. Perform other tasks as assigned by RAC.

## Committee Composition and Governance

### 1. Membership

- a. The MVS will be composed of members from WECC Member organizations with subject matter expertise in modeling.
- b. Members will be selected by their organization's RAC representative or by their organization's WECC Member Representative if no RAC representative exists.
  - i. WECC Member organizations may have multiple members on the MVS.
  - ii. Notice of selection should be sent to the chair (or designee).
- c. Members will serve until they resign or until a successor has been selected.
- d. The MVS 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 RAC will approve one of the MVS members to serve as the chair.
  - i. The chair will manage the committee and its meetings.
- b. The chair of the MVS will appoint an MVS member to serve as the vice chair for MVS approval.
  - i. The vice chair will perform the duties of the chair in the chair's absence or in case of a vacancy in the office of chair.
- c. The chair and vice chair will each hold office for a term of two years, or until a successor has been duly appointed. The chair and vice chair may serve multiple terms.
- d. WECC staff will work with the chair and vice chair 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.
- e. WECC staff will prepare minutes of MVS meetings for the committee's approval.
- f. The chair 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 MVS will meet as often as required to carry out its responsibilities.



- i. Meetings will be held according to the WECC Meeting Policy.
- ii. MVS meetings may be in-person, virtual, a combination of the two (hybrid), or by conference call, as determined by the chair.
- 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 MVS will strive to make all decisions by consensus. If consensus is not possible, action taken by the MVS will require a majority vote of the members present.
  - i. Voting may be by any means the chair determines appropriate.
  - ii. Voting must take place in a noticed meeting.
  - iii. MVS 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 MVS 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.
  - Three 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 MVS 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.

## Reporting

The MVS will report to the RAC on its activities and any recommendations.



## Review and Changes to the Charter

The MVS will review this charter every three years or as needed and make a recommendation to the RAC for approval.

	Committee	Date
Approved	RAC	October 26, 2023
Endorsed	JGC	August 4, 2023
Reviewed	MVS	May 24, 2023

