

1. Welcome, Call to Order

Bill Middaugh, Protection and Control Subcommittee (PCS) Chair, called the meeting to order at 9:30 a.m. MT on June 6, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

James Hanson, Operations Analysis Manager, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

B. Middaugh introduced the proposed meeting agenda.

By consensus, the PCS approved the agenda.

4. Review and Approve Previous Meeting Minutes

B. Middaugh introduced the minutes from the meeting on March 8, 2024.

By consensus, the PCS approved the minutes from March 8, 2024.

5. Review Previous Action Items

Maya Brimhall, Administrative Coordinator, reviewed action items carried over from the PCS meeting on March 8, 2024. Action items that are not closed and will be carried forward can be found [here](#).

6. Standing Committee Updates

Curtis Holland, Senior Reliability Specialist, reported on the Event and Performance Analysis Subcommittee (EPAS). EPAS received 10 brief reports since the PCS meeting in March 2024. The next EPAS meeting will be a virtual closed session on July 3, 2024.

Gene Henneberg, NV Energy, reported on the Remedial Action Scheme Reliability Subcommittee. He explained multiple schemes to the group and led the PCS in a discussion.

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G. Henneberg briefed the PCS on the IEEE Power System Relaying Committee in-person meeting held in Buffalo, New York, in May 2024. The next meeting will be held in Phoenix, Arizona, from September 9 through 12, 2024.

B. Middaugh and J. Hanson reported that the MIDAS User Group reviewed considerations for updating and possibly adding specific examples to the next version of the DRI.

B. Middaugh and David Beach, Portland General Electric Company (PGE), reported on the System Protection and Control Working Group (SPCWG). The June 2024 meeting has been cancelled due to the in-person meeting held in Montreal in July 2024.

D. Beach reported on the Short-circuit Modeling Work Group (SCMWG). Since FERC Order No. 901 is a priority, other reports have been put on the backburner. There are some compliance reports that must be submitted by the end of the year.

J. Hanson reported that the Event Analysis Subcommittee (EAS) met in the last week in the WECC offices. The Event Analysis Program recently underwent revisions, the most prominent being the reduction of five main categories to three.

7. IEEE D45, Wildfire Mitigation

Jonathan Sykes and Eric Udren, Quanta Technologies, presented the Wildfire Mitigation Strategies on Transmission and Distribution Systems. They encouraged utility companies to incorporate a three-lines-of-defense framework to facilitate optimal resource allocations for wildlife resilience, sharing that fast-trip settings formulas co-optimized with other mitigation strategies can be a successful option to track utility companies' protection measures and impacts. The PCS engaged in a lively discussion concerning key wildfire risk industry trends from challenges and objectives set by utility executives. J. Sykes and Scott Hayes, Pacific Gas and Electric Company, then presented on the IEEE D45 work group's progress documenting protection methods used to reduce wildfire risks due to transmission and distribution lines. The technical report's output is scheduled for January 2025.

The presentation can be found on the WECC website.

8. NERC Standards Update

Rich Bauer, NERC, updated the PCS on NERC Standards. The group discussed NERC's standards development strategy to address FERC Order 901 along with the reliability standards under development in order of priority. R. Bauer shared the progress on various standards announcement and authorization reports. R. Bauer also encouraged PCS members to read various NERC disturbance reports.

The presentation can be found on the WECC website.



9. Tour of BPA’s High-voltage Testing Center

PCS attendees in Vancouver, Washington, went on a tour of BPA’s High-voltage Testing Center.

10. Closed Session

The PCS discussed the 2024 Misoperations, announced October meeting updates, reviewed Q1 2024 Misoperation Submissions, and conducted a roundtable discussion during the PCS closed session.

11. Public Comment

J. Hanson asked whether the PCS was opposed to changing the group’s September meeting dates to October 3–4, 2024, so PCS members travelling for the ERO Protection System Conference held in the WECC office from October 1–2, 2024, do not have to travel twice within a month. The group agreed, and the meeting date was changed.

No other public comments were made.

12. Review New Action Items

- Complete subgroups’ analyses and write their reports for the annual report.
 - Assigned To: The PCS and their respective subgroups.
 - Due Date: August 15, 2024

13. Upcoming Meetings

October 3–4, 2024 Salt Lake City, Utah

December 5–6, 2024 Salt Lake City, Utah

14. Adjourn

B. Middaugh adjourned the meeting without objection at 12:38 p.m.



Exhibit A: Attendance List

Members in Attendance

David Beach.....Portland General Electric Company
Dean BenderBonneville Power Administration—Transmission
Orion Chan British Columbia Hydro and Power Authority
Ryan Chun..... Los Angeles Department of Water and Power
Kevin Damron.....Avista Corporation
Jason Hall..... Puget Sound Energy, Inc.
James Hanson.....WECC
Gene HennebergNV Energy
Donald Loftis.....Colorado Springs Utilities
Pamela MendozaPublic Service Company of Colorado (Xcel Energy)
Bill Middaugh Tri-State Generation and Transmission—Reliability
Claire PattiPortland General Electric Company
Nick Podany U.S. Bureau of Reclamation
Curtis Sanden..... Southern California Edison Company
Stephen SmithSalt River Project
Jonathan Trejo El Paso Electric Company

Members not in Attendance

Alejandro Castro..... El Paso Electric Company
Xing Chen British Columbia Hydro and Power Authority
Bryan Diemer Sacramento Municipal Utility District
David HeffernanPacifiCorp
Kawika Lawlor..... San Diego Gas and Electric
Lucy LinAlberta Electric System Operator
Sanjay Mehta Los Angeles Department of Water and Power
Josh MoyersWestern Area Power Administration
Blake Peck.....Idaho Power Company



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Rafael Pineda..... Pacific Gas and Electric Company
Harjinder Sidhu AltaLink Management Ltd.
Tyler Smith Idaho Power Company
Masahiko Taniguchi..... Los Angeles Department of Water and Power

Others in Attendance

Bashir Abdulle Colorado Springs Utilities
Farrokh Aminifar..... Quanta Technologies
Ali Arabnya Quanta Technologies
Rich Bauer..... NERC
Maya Brimhall..... WECC
Dave Grover WECC
Scott Hayes Pacific Gas and Electric Company
Curtis Holland WECC
Jonathan Sykes Quanta Technologies
Thomas Teafatiller..... Reliability First
Eric Udren..... Quanta Technologies

