

Protection and Control Subcommittee

Draft Meeting Minutes

December 5, 2024

Salt Lake City, Utah

#### 1. Welcome, Call to Order

Bill Middaugh, Protection and Control Subcommittee (PCS) Chair, called the meeting to order at 8:00 a.m. MT on December 5, 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 October 3–4, 2024.

By consensus, the PCS approved the minutes from October 3–4, 2024.

#### 5. Review Previous Action Items

Maya Brimhall, Administrative Coordinator, reviewed action items carried over from the PCS meeting on October 4, 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).

Gene Henneberg, NV Energy, reported on the Remedial Action Scheme Reliability Subcommittee (RASRS).

- G. Henneberg reported on the IEEE Power System Relaying Committee.
- B. Middaugh and David Beach, Portland General Electric Company (PGE), reported on the System Protection and Control Working Group (SPCWG).
- D. Beach reported on the Short-circuit Modeling Work Group (SCMWG).



J. Hanson reported on the Event Analysis Subcommittee (EAS).

## 7. Debrief of Annual Report Approach

B. Middaugh debriefed the PCS on the development of the Annual Report. Members shared their perspectives on the Annual Report.

#### 8. BESS Events in the West

C. Holland reported on the BESS events in the West.

### 9. Traveling Wave Protection

Daniel Marquis, Public Service of New Mexico, presented on traveling wave protection. D. Marquis led a successful Q&A session.

#### 10. Review of System Performance Data Portal

Peter Ashcroft, Senior Data Scientist, shared how to access and navigate the System Performance Data Portal with the PCS.

### 11. Reduced Fault Duty due to IBR Penetration

Greg Park, Risk Analysis & Data Services Manager, reported on the reduced fault duty due to inverter-based resource (IBR) penetration. He shared various statistics relating to several organizations attending the PCS.

# 12. PGE Short-circuit Approach

D. Beach discussed PGE's short-circuit approach.

# 13. Broken Conductor Detection Technology

Bryan Diemer, Sacramento Municipal Utility District, presented on broken conductor detection technology.

The presentation can be found on the WECC website.

#### 14. Closed Session

The PCS reviewed Q3 2024 Misoperation Submissions and conducted a roundtable discussion.

#### 15. Review New Action Items

- Reach out to Joe Livingston to present on NATF SPPG.
  - Assigned To: Bill Middaugh



- o Due Date: March 7, 2024
- Reach out to NWE about broken conductor research/experience.
  - o Assigned To: James Hanson
  - o Due Date: March 7, 2024

# 16. Upcoming Meetings

March 6–7	7, 2025	Salt Lake City,	Utah
June 5–6,	2025	Salt Lake City,	Utah

# 17. Adjourn

B. Middaugh adjourned the meeting without objection at 11:02 a.m. MT on December 6, 2024.



# **Exhibit A: Attendance List**

#### **Members in Attendance**

David Beach	Portland General Electric Company	
Dean Bender	Bonneville Power Administration—Transmission	
Orion Chan	British Columbia Hydro and Power Authority	
Ryan Chun	Los Angeles Department of Water and Power	
Kevin Damron		
Bryan Diemer	Sacramento Municipal Utility District	
James Hanson	WECC	
Gene Henneberg		
Luke Hoffmann		
Kawika Lawlor	San Diego Gas and Electric	
Donald Loftis		
Pamela Mendoza	Public Service Company of Colorado (Xcel Energy)	
Bill Middaugh		
Rafael Pineda	Pacific Gas and Electric Company	
Nick Podany		
Curtis Sanden	Southern California Edison Company	
Stephen Smith	Salt River Project	
Masahiko Taniguchi	Los Angeles Department of Water and Power	
Jonathan Trejo	El Paso Electric Company	
Members not in Attendance		
Alejandro Castro	El Paso Electric Company	
Xing Chen	British Columbia Hydro and Power Authority	
Jason HallPuget Sound Energy, Inc		
David Heffernan		
Lucy Lin		
Josh Moyers		



Claire Patti	Portland General Electric Company
Blake Peck	Idaho Power Company
Harjinder Sidhu	AltaLink Management Ltd
Tyler Smith	Idaho Power Company
Others in Attendance	
Peter Ashcroft	WECC
Melvin Bowekaty	Public Service Company of New Mexico
Maya Brimhall	WECC
Chelsea Collette	Public Service Company of New Mexico
Dave Grover	WECC
Curtis Holland	WECC
Daniel Marquis	Public Service Company of New Mexico
Jorge Muralles	Los Angeles Department of Water and Power
Greg Park	WECC
Mark Willie	WFCC

