

#### **Protection and Control Subcommittee**

Meeting Minutes Salt Lake City, Utah

### Day 1-June 5, 2025

8:00 a.m. to 5:00 p.m. Mountain Time

#### 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 June 5, 2025. 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 policy can be found on wecc.org.

## 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 of the meeting on March 6, 2025.

By consensus, the PCS approved the minutes of the meeting on March 6, 2025.

#### 5. Review Previous Action Items

Maya Brimhall, Administrative Coordinator, reviewed action items carried over from the PCS meeting on March 7, 2025. Action items that are not closed and will be carried forward can be found on wecc.org.

#### 6. Discussion on Use of Sodium Nickel Batteries in Substations

Curtis Crews, Senior Technical Advisor, discussed the use of sodium nickel batteries in substations. J. Hanson agreed to send an email poll to the PCS inquiring about use of sodium nickel acid batteries by September 5, 2025.

## 7. Interconnection Rating on Hybrid Plants

C. Crews discussed the interconnection rating on hybrid plants. Gene Henneberg, NV Energy; David Beach, Portland General Electric; Blake Peck, Idaho Power Company; Bryan Diemer, Sacramento Municipal Utility District; and Curtis Sanden, Southern California Edison Company, will create a subgroup to review implementation guidance for PRC-025 regarding hybrid battery energy storage systems (BESS) with other renewables. C. Crews will send his current draft guidance to the subgroup to review, and the subgroup will report back to the PCS on its progress by September 5, 2025.

#### 8. Standing Committee Updates

- i. Curtis Holland, Senior Reliability Specialist, reported on the Event and Performance Analysis Subcommittee (EPAS).
- ii. G. Henneberg reported on the Remedial Action Scheme Review Subcommittee (RASRS).
- iii. G. Henneberg reported on the IEEE Power System Relaying and Control Committee.
- iv. B. Middaugh and D. Beach reported on the System Protection and Control Working Group (SPCWG).
- v. D. Beach reported on Short Circuit Modeling Work Group (SCMWG).
- vi. J. Hanson reported on the Event Analysis Subcommittee (EAS).

### 9. Falling Conductor Protection

Kawika Lawlor, San Diego Gas and Electric Company (SDG&E), presented on SDG&E's falling conductor protection measures.

### 10. SPCWG 61850 White Paper Update

Eric Udren, Quanta Technologies, updated the PCS on the SPCWG 61850 white paper.

#### 11. PRC-026 Calculations

Dean Bender, Bonneville Power Administration, reviewed PRC-026 calculations with the PCS. J. Hanson sent the document out via email for the PCS to review.

### 12. PRC-023 R1.10 Interpretation

Kevin Damron, Avista Corporation (AVA), shared AVA's interpretation of PRC-023 R1.10.

## 13. Discussion on Protection Related Wildfire mitigation efforts

The PCS discussed protection-related wildfire mitigation efforts. J. Hanson shared the wildfire statistics from the WECC System Performance Data Portal.

## 14. Discussion on Sync Check Relay Settings Approach

Lucy Lin, Alberta Electric System Operator (AESO), led a discussion on AESO's approach to syncheck relay settings.

## 15. 2024 Misoperations Analysis Report

The PCS created teams to share aggregated data and discuss their assignments regarding the 2024 misoperations analysis report. J. Hanson will send the updated charts for the misoperations report to different groups by June 27, 2025. The members of the PCS must complete and submit



their misoperations assignments by August 21, 2025, to discuss findings in the September 2025 PCS meeting.

### Day 2-June 6, 2025

8:00 a.m. to 12:00 p.m. Mountain Time

#### 16. Closed Session

The PCS held a closed session to review the Q1 2025 misoperation submissions and engage in a roundtable discussion. J. Hanson will send Rafael Pineda's, Pacific Gas & Electric Company, issue on PSPS coordination and two of the Q1 misoperation submissions to B. Middaugh to discuss in the NERC SPCWG for additional guidance, and B. Middaugh will report back in the September 2025 PCS meeting.

#### 17. Review New Action Items

- Send updated charts for misoperations report to different groups
  - o Assigned To: James Hanson
  - Due Date: June 27, 2025
- Work on misoperation assignments for annual report
  - Assigned To: PCS
  - Due Date: August 21, 2025
- Create a small group for implementation guidance for PRC-025 regarding hybrid BESS with other renewables; send draft to work team
  - Assigned To: Gene Henneberg, David Beach, Blake Peck, Bryan Diemer, Curtis Sanden, Curtis Crews
  - o Due Date: September 5, 2025
- Send an email poll to the PCS inquiring about use of sodium nickel batteries
  - Assigned To: James Hanson
  - o Due Date: September 5, 2025
- Send Rafael Pineda's PSPS coordination issue to Bill Middaugh and follow up with the NERC SPCWG on 2 of the Q1 2025 misoperation submissions for additional guidance
  - o Assigned To: James Hanson, Bill Middaugh
  - o Due Date: September 5, 2025
- Follow up with Rafael S. on the March 2026 NPCC meeting
  - Assigned To: James Hanson
  - o Due Date: September 5, 2025



## 18. Review Upcoming Meetings

September 4–5, 2025......Salt Lake City, Utah

December 4–5, 2025.....Salt Lake City, Utah

## 19. Adjourn Day 2

B. Middaugh adjourned the meeting without objection at 11:04 a.m. Mountain Time.

# Exhibit A: Attendance List

## Members in Attendance

David Beach	Portland General Electric Company
	Bonneville Power Administration—Transmission
	British Columbia Hydro and Power Authority
	Sacramento Municipal Utility District
	WECC
	NV Energy
•	PacifiCorp
	San Diego Gas and Electric
	Alberta Electric System Operator
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	Tri-State Generation and Transmission—Reliability
•	Idaho Power Company
	Pacific Gas and Electric Company
	U.S. Bureau of Reclamation
	Public Service Company of Colorado (Xcel Energy)
	AltaLink Management Ltd.
-	Los Angeles Department of Water and Power
•	El Paso Electric Company
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Members not in Attendance	
Alejandro Castro	El Paso Electric Company
Xing Chen	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.
David Heffernan	PacifiCorp
•	Western Area Power Administration
Claire Patti	Portland General Electric Company
Curtis Sanden	Southern California Edison Company
Stephen Smith	Salt River Project
Tyler Smith	Idaho Power Company
Nathanial Thompson	NorthWestern Energy
Others in Attendance	
Maya Brimhall	WECC
•	WECC
	WECC
	Tacoma Power
	Los Angele Department of Water and Power
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