

1. Welcome, Call to Order

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 9:04 a.m. MT on August 3, 2022. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Tyler Butikofer, System Adequacy Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Ms. Austin introduced the proposed meeting agenda.

On a motion by Chelsea Loomis, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

The previous meeting minutes will be approved during a future meeting.

5. Status of addressing discrepancies in BAA level Generation by technology, L&R versus 2032 ADS

Mr. Butikofer presented the status of addressing discrepancies in balance authority area (BAA) level generation by technology for the loads and resources (L&R) versus the 2032 Anchor Data Set (ADS). The combined cycles and the gas turbines are showing the biggest differences. After the max capacity is decided the discrepancies should be fixed.

Jon Jensen, System Adequacy Engineer, presented a spreadsheet showing the biggest differences by area for hydro capacity. British Columbia (BC) hydro is showing a large discrepancy along with large units for Bonneville Power Administration (BPA) and will need further research. The PCDS discussed that the weekly hydro data might be different than the generator list. The output restriction could be coming from the power flow (PF) combined unit restrictions. There will be contact with the transmission planners to verify this isn't the cause of the discrepancies. Concern was expressed about implementing what came through the L&R capacity and that discrepancies should be researched.

The presentation is posted to the [WECC website](#).

6. Pmax to use in the PCM

Kevin Harris, Pacific Northwest National Laboratory (PNNL), presented the Pmax to use in the Production Cost Model (PCM). Rules are needed to assist with time and to assist with the guidelines. The PCDS discussed the percentage of discrepancies that are acceptable to follow. Discrepancies are not wanted but the smaller ones will take too much time to address.

On a motion by Steven Wallace, the PCDS approved the following threshold:

- **Address issue if the difference greater than the lesser of 5% or 25 MW and ignore difference less or equal to 1 MW**
- **Denote how WECC resolves any issue.**

The presentation is posted to the [WECC website](#).

7. Develop and summarize a “Observation/Issues List” of pending issues with assignments and timeline

This will be presented during a future meeting.

8. Addressing Unserved BAA Loads: PSCO, WACM and CFE

This will be presented during a future meeting.

9. Result of Analyses, Fixing Alberta Resources issues

Steven Wallace, Comprehensive Power Solutions (CPS), led the discussion on the results of analyses fixing Alberta resource issues. Mr. Wallace improved the flows by cutting the CO2 penalty in half to reflect that Alberta would not rely on imports from other areas.

Yi Zhang, California Independent System Operator (CAISO), presented the results of analyses fixing Alberta resource issues. The PCDS discussed that adjusting phase shifters and the CO2 price will help fix issues. Washington and Oregon passed a law to not be carbon neutral in the future. Washington and Oregon generators will need some sort of carbon cost in the model to implement this law. This will be determined at a later time.

The presentation is posted to the [WECC website](#).

10. BPA Hydro Data _ Report on an agreement that there is no need to change the Daily Operating range for BPA

This will be presented during a future meeting.



11. Addressing sustained Congestion on Transmission Paths and Branches

This will be presented during a future meeting.

12. Public Comment

No comments were offered.

13. Review New Action Items

- Reach a conclusion with the CO2 in Alberta and Washington.
 - Assigned To: The PCDS
 - Due Date: August 10, 2022

14. Upcoming Meetings

August 17, 2022.....Virtual

August 24, 2022.....Virtual

August 31, 2022.....Virtual

15. Adjourn

Mr. Harris, PCDS Vice Chair, adjourned the meeting without objection at 10:42 a.m.



Exhibit A: Attendance List

Members in Attendance

Jamie Austin PacifiCorp
 Michael Granados Los Angeles Department of Water and Power
 Kevin Harris Pacific Northwest National Laboratory
 John Liang Public Utility District No. 1 of Snohomish County
 Chelsea Loomis Western Power Pool (formerly Northwest Power Pool Corporation)
 Hank McIntosh San Diego Gas and Electric
 Effat Moussa San Diego Gas and Electric
 Matthew Stajcar NorthWestern Energy
 Chifong Thomas Thomas Grid Advisor
 Steven Wallace Comprehensive Power Solutions, LLC
 Stan Williams Bonneville Power Administration—Transmission
 Yi Zhang California Independent System Operator

Members not in Attendance

Lee Alter Tucson Electric Power
 Hazel Aragon California Energy Commission
 Jose Diaz Los Angeles Department of Water and Power
 Christopher Fecke-Stoudt Arizona Public Service Company
 Jonathon Flores Los Angeles Department of Water and Power
 Monica Garcia El Paso Electric Company
 Manuel Gomez El Paso Electric Company
 Chris Hagman American Transmission Company
 Bill Hosie PSI Power System Innovation Corp.
 Tito Inga-Rojas British Columbia Hydro and Power Authority
 Anders Johnson Bonneville Power Administration—Transmission
 Harris Lee Salt River Project
 Amy Li Southern California Edison Company



Peter Mackin..... GridBright, Inc.
Akhil Mandadi..... Arizona Public Service Company
John D. Martinsen..... Public Utility District No. 1 of Snohomish County
Kimberly McClaffertyNorthWestern Energy
Ahlmahz Negash Tacoma Power
Daniel Ramirez..... Energy Strategies
Sirisha TanneeruPublic Service Company of Colorado (Xcel Energy)
Emily TozierSalt River Project
Xiaobo WangCalifornia Independent System Operator
Di Xiao..... Southern California Edison Company

Others in Attendance

Tyler ButikoferWECC
Nick HattonWECC
Stan Holland.....WECC
Jon Jensen.....WECC
Richard Jensen..... California Energy Commission
Bhavana KatyalWECC
BK Ketineni.....WECC
Luba Kravchuk.....California Independent System Operator
Nicole LeeWECC
Katie RogersWECC
Louis Vigil..... El Paso Electric Company
Byron WoertzWECC

