

**1. Welcome, Call to Order**

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 9:03 a.m. MT on August 24, 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 minutes will be approved during a future meeting.

**5. Export Hour of PF Case**

Mr. Butikofer presented the 2032 reference case power flow (PF) resources. There were generators in the PF that did not align with the loads and resources (L&R). The items that are in the Production Cost Model (PCM) and not in the PF will cause problems and will need to be modeled. The PCDS discussed automating the four pumps causing issues. A suggestion was made to keep a list of potential issues and update the Data Development and Validation Model (DDVM). Tracy pump is managed differently and there will be a follow-up with Western Area Power Administration (WAPA) about how it should be modeled.

Bharat Vyakaranam, Pacific Northwest National Laboratory (PNNL), and Tony Nguyen NV Energy (NVE) presented the PCM to PF data being extracted into GridView. The PCDS discussed exporting the data the same way as Hitachi. There will be a follow-up discussion offline.

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

## 6. Review Results of 2032 ADS PCM V2.0

Mr. Butikofer presented the 2032 Anchor Data Set (ADS) PCM V2.0. Modifications were made to the updated version. The PCDS discussed the path congestion differences and unserved energy. There will be an offline meeting to discuss nomograms in the ADS.

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

Ms. Austin presented an overview of the 2032 ADS PCM v2.0 and pending challenges associated with the V2.0. The PCDS discussed the L&R changes that will be made to incorporate the data in the ADS from the Balancing Authority Area (BAA). Colorado will be updating the retirement data of its thermal plants to resolve discrepancies. The PCDS discussed the Locational Marginal Price (LMP) and whether resources have been placed on the wrong side of the transformer that is causing congestion. There are pending challenges associated with version 2.0 and things that can be learned.

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

## 7. Process Moving Forward

This will be discussed during a future meeting.

## 8. Start Time

Ms. Austin led the discussion on starting the PCDS meeting at 10:00 a.m. MT instead of 9:00 a.m. MT. The PCDS agreed to change to 10:00 a.m. MT in September 2022.

## 9. Public Comment

No comments were offered.

## 10. Review New Action Items

- Create a list of potential loads that could be modeled as either loads or generators in the PF but are generators in the PCM. Add that a check needs to be done in the DDVM.
  - Assigned To: WECC staff and Jamie Austin
  - Due Date: September 21, 2022
- Hold an offline meeting to discuss not having nomograms in the ADS.
  - Assigned To: Tyler Butikofer, Jamie Austin, APFWG
  - Due Date: September 21, 2022
- Research path 27 deadband and report findings.
  - Assigned To: Kevin Harris and Anders Johnson.
  - Due Date: September 21, 2022



**11. Upcoming Meetings**

- September 7, 2022 .....Virtual
- September 14, 2022 .....Virtual
- September 21, 2022 .....Virtual

**12. Adjourn**

Ms. Austin adjourned the meeting without objection at 10:44 a.m.



## Exhibit A: Attendance List

### Members in Attendance

Jamie Austin.....PacifiCorp  
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)  
Effat Moussa..... San Diego Gas and Electric  
Chifong Thomas ..... Thomas Grid Advisor  
Steven Wallace..... Comprehensive Power Solutions, LLC  
Stan Williams .....Bonneville Power Administration—Transmission

### 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  
Michael Granados..... Los Angeles Department of Water and Power  
Chris Hagman ..... American Transmission Company  
Bill Hosie..... PSI Power System Innovation Corp.  
Eliana Ibarra .....Imperial Irrigation District  
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 McClafferty .....NorthWestern Energy  
Hank McIntosh ..... San Diego Gas and Electric  
Ahlmahz Negash ..... Tacoma Power  
Daniel Ramirez..... Energy Strategies  
Matthew Stajcar .....NorthWestern Energy  
Sirisha Tanneeru .....Public Service Company of Colorado (Xcel Energy)  
Emily Tozier .....Salt River Project  
Xiaobo Wang .....California Independent System Operator  
Di Xiao..... Southern California Edison Company  
Yi Zhang.....California Independent System Operator

**Others in Attendance**

Tyler Butikofer .....WECC  
Arkadeep Das.....WECC  
Nick Hatton .....WECC  
Stan Holland.....WECC  
Jon Jensen.....WECC  
Richard Jensen..... California Energy Commission  
Bhavana Katyal .....WECC  
BK Ketineni.....WECC  
Nicole Lee .....WECC  
Tony Nguyen ..... Pacific Northwest National Laboratory  
Katie Rogers .....WECC  
Louis Vigil..... El Paso Electric Company  
Bharat Vyakaranam..... Pacific Northwest National Laboratory  
Byron Woertz .....WECC

