

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:02 a.m. MT on June 5, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Jon Jensen, Reliability Modeling Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Mr. Harris introduced the proposed meeting agenda.

By consensus, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Harris introduced the minutes from the meeting on May 22, 2024, and May 29, 2024.

On a motion by Gary Simonson, the PCDS approved the minutes from May 22, 2024, and May 29, 2024.

5. Review Previous Action Items

Mr. Jensen reviewed action items carried over from the PCDS meeting on May 29, 2024. Action items that are not closed and will be carried forward can be found [here](#).

6. Announcements

Mr. Jensen announced that WECC have finalized the loads update and has received the hydro information on the nine units from PNNL that will now be dispatchable versus on a shape. He also received a note to be sure to update the generators in the nomogram table, so the nomograms work correctly. He has been working with members from LADWP to update the Path 27 deadband. The new deadband will be 160 MW instead of 240 MW.

7. Path Rating Update

Anuj Patil, Senior Reliability Modeling Engineer, presented a chart showing the updated WECC Path Rating. The chart can be found on the PCDS Teams page.

8. Generator Subtype Mapping, Fuel Type, Technology Type

Mr. Jensen presented a chart showing the existing Generator subtypes. He has cleaned up the list, removing the duplicates, and mapped them to new simplified subtypes, and unique new simplified subtypes. The idea is to move the detailed information about the unit to the technology type and use the simplified subtype to get the details. The Loads and Resources (L&R) only use the subtype and the fuel types. The L&R is using abbreviations for the unit types and primary and secondary fuel types to help further differentiate things. It was decided to consolidate as much as possible into U.S. Energy Information Administration (EIA) abbreviations.

9. ADS Interface Comparison

Chelsea Loomis presented information from GridView regarding the 2032-2034 interface comparison. It has the Path name, the primary direction, and a reverse direction. It also gives the interface assignments for all the buses. She separated out the interfaces into their “from” bus and their “to” bus, then sorted the corresponding bus names and created a new name for each interface using an “if” statement. The “if” statement is based on directionality—it concatenates the names in order if it is a 1, and goes in the opposite order if it is a 0. This creates a new name column, which takes all the components of the interface and categorizes them into the “from” bus and “to” bus. The result is a 2032 Anchor Data Set (ADS) list and a 2034 ADS list. Now they know what is missing from the 2034 ADS that is in the 2032 ADS list and can investigate why the difference is there and correct it if necessary. The spreadsheet has been provided to WECC, they will review it and report back the findings to the PCDS.

10. Path 27 Deadband Update

Mr. Jensen discussed the Path 27 deadband. The new deadband is 160 MW. Mr. Jensen has updated the nomogram and is waiting to hear from Hitachi that it is correct before continuing.

11. Resources Update

Mr. Jensen gave an update on the 2024 L&R resources. He is working on it and hoping to have a draft run this week or early next.



12. California Loads Update

Mr. Patil gave an update on the California Loads. He worked with Kevin Harris and received feedback on what adjustments to make on the load shapes. The CAISO BAs have been updated.

13. Transmission Projects to be Included in 2034 HS1 Case

The PCDS discussed including the SunZia HVDC, TransWest Express, and SWIP North in the 2034 HS1 case. It was suggested to investigate documentation for SunZia, and possibly add it to the 2034 ADS PCM. For TransWest Express and SunZia, it was decided to create separate change cases, so people could add them to the case if they want.

14. Keeping Track of GridView Issues

Mr. Jensen stated that WECC is researching the type of production cost model (PCM) software that different companies are using and will be sending out a survey later.

15. Public Comment

Max Code asked whether there is any prospect to add production tax credits to the WECC PCM. Mr. Harris stated that bidding logic is not applied in the GridView Model, as it is distributed at WECC. There is a feature that you can use to add bidding capability to the incremental heat rate curve on top of the incremental heat rate. Richard Jensen asked for a presentation with more detail on the California Loads.

16. Review New Action Items

- Add a note field to Ms. Loomis's spreadsheet and review.
 - Assigned To: Jon Jensen
 - Due Date: June 12, 2024
- Post the new Loads spreadsheet on the Teams site.
 - Assigned To: Jon Jensen
 - Due Date: June 12, 2024
- Look up documentation for SunZia showing that it is under construction. Ask PCDS whether we should add to base PCM. Bring to PCDS for approval.
 - Assigned To: Jon Jensen
 - Due Date: June 12, 2024
- Contact TransWest Express for change set.
 - Assigned To: Jon Jensen
 - Due Date: June 12, 2024
- SWIP North: check to see whether already in the case, maybe turned off, change case to turn back on.



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- Assigned To: Jon Jensen
- Due Date: June 12, 2024

17. Upcoming Meetings

June 12, 2024 Virtual
June 19, 2024 Virtual
June 26, 2024 Virtual

18. Adjourn

Mr. Harris adjourned the meeting without objection at 11:16 a.m.



Exhibit A: Attendance List

Members in Attendance

Jose Diaz..... Los Angeles Department of Water and Power
Sylvia Gard Puget Sound Energy, Inc.
Michael Granados..... Los Angeles Department of Water and Power
Kevin Harris Pacific Northwest National Laboratory
Jon Jensen.....WECC
Richard Jensen..... California Energy Commission
Chelsea Loomis Western Power Pool
Kimberly McClaffertyNorthWestern Energy
Effat Moussa..... San Diego Gas and Electric
Eliana OrtaImperial Irrigation District
Gary Simonson..... PacifiCorp

Members not in Attendance

Tyler Butikofer Energy Strategies
Renchang Dai Puget Sound Energy, Inc.
Jennifer Galaway Portland General Electric Company
Anders Johnson.....Bonneville Power Administration—Transmission
Nader Samaan..... Pacific Northwest National Laboratory
Chifong Thomas Thomas Grid Advisor
Bharat Vyakaranam..... Pacific Northwest National Laboratory
Stan WilliamsBonneville Power Administration—Transmission
Di Xiao..... Southern California Edison Company
Yi Zhang.....California Independent System Operator

Others in Attendance [Only for technical committees]

Jyotsna Ch..... NV Energy
Max Code..... Pattern Energy
Ashton Davis.....WECC



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Dale Dunckel.....Public Utility District No. 1 of Okanogan County
Agnieszka Hernandez..... Leeward Renewable Energy, LLC
Joshua Hurst..... Los Angeles Department of Water and Power
Colby JohnsonEnergy Strategies
Joey Jones.....WECC
David Meyer.....Puget Sound Energy, Inc.
Anuj PatilWECC
Kellen Romero.....WECC
Melissa VillaImperial Irrigation District
Nathalie Voisin Pacific Northwest National Laboratory

