

Production Cost Data Subcommittee

Meeting Minutes

June 19, 2024

Virtual

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:03 a.m. MT on June 19, 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. Jensen introduced the proposed meeting agenda.

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

4. Review and Approve Previous Meeting Minutes

Mr. Jensen introduced the minutes from the meeting on June 12, 2024. Chifong Thomas suggested a change to the Action Items. The PCDS added "and associated supply" to the second action item.

On a motion by Chifong Thomas, the PCDS approved the minutes from June 12, 2024.

5. Review Previous Action Items

Mr. Jensen reviewed action items carried over from the PCDS meeting on June 12, 2024. Action items that are not closed and will be carried forward can be found here.

6. Announcements

Mr. Jensen said he was hoping to have a 2034 Anchor Data Set (ADS) draft case run done by today, but WECC is still fixing some resources and run issues. All the resources and loads are in, they are just double-checking resources and making sure they are all entered correctly and working through GridView run issues. The 2034 ADS run will be available by the next meeting. Also, Bharat and Tony from PNNL have been working on a C-Page tool, which is a roundtrip tool. It can solve hourly exports in power flow from the production cost model (PCM). They will present their findings in a future meeting.



7. Path Ratings Comparison Spreadsheet Update

Anuj Patil, Senior Reliability Modeling Engineer, gave an update on the Path Ratings Comparison Spreadsheet. A comments column has been added. The spreadsheet has been added to the PCDS Teams site.

8. 2034 ADS PCM V2 Draft Update

Mr. Jensen commented that the ADS run has not happened yet. It looks like it is ready to run but stops after it is initialized. Mr. Harris said that there are some new features and commands that need to be initialized, and occasionally it does not initialize. He suggested to run it without Mixed Integer Optimization (MIO) and look-ahead logic.

9. Transmission Projects Follow-up

Mr. Jensen gave an update on the SunZia HVDC and how much supply is being added. The change file that he received from them had 7,403 MW of total supply capacity. The direct current (dc) rating is 3,000. It was suggested that he check with SunZia to get more information and a more accurate number for supply capacity, which should be between 3,000 and 4,000 MW.

Mr. Jensen also talked about the TransWest Express (TWE) project, and stated the supply is not included in the Loads and Resources (L&R) submittal.

He has details on how to model the high wheeling for the PacifiCorp (PAC) lines close to TWE. TWE sent a change file that had a supply capacity of 8,000 MW. Mr. Jensen is going to contact TransWest express to find out how much wind will be connected to the line.

10. Keeping Track of GridView Issues

Ms. Loomis has been looking at the output of the 2034 ADS. She found MATL Path 83 is very limited. It is modeled as a proper phase-shifting transformer. It has a high cost, because it does not have a parallel path. She also investigated Path 80. It is also a phase-shifter-controlled path. She found that it is being treated as a proper +/- 600 MW, which is generous, because 200 to 300 MW in either direction is operationally possible with the phase shifter in service. The phase shifters on Path 80 are not modeled as phase shifters, but as branches. So, when she used that modeling on MATL, she found that she could shift +/- 300 MW. She asked whether anyone else came across something like this. It was suggested that the phase angle regulator (PAR) rating in GridView is different than the summer/winter rating on the transformer, so she should check that. Also, the PAR modeling in GridView now is supposed to change the shift factor if the PAR goes up or down.



PCDS Meeting Minutes—June 19, 2024

It was further discussed that the path rating definition be used, not the local area constraint definition to avoid problems. There are five transmission lines called the South of Great Falls cut plain, and it is not a proper cut plain. Therefore, it will not catch a proper interface limitation with the operational restrictions with MATL and Northwestern, but all the lines will still have the ratings and will collectively catch some of the impacts. The PCDS wants to implement a contingency on select lines, such as N-1 on a 230 line, as needed in a case like this, as a solution on capturing operational limitations.

11. Public Comment

No comments were made.

12. Review New Action Items

- N-1 Contingency review
 - o Assigned To: PCDS
 - o Due Date: August 8, 2024
- Review MATL after a run
 - o Assigned To: Jon Jensen and Anuj Patil
 - o Due Date: July 31, 2024
- SunZia—ask how many MW to turn on for supply
 - o Assigned To: Jon Jensen and Anuj Patil
 - o Due Date: June 26, 2024
- TransWest Express—ask how many MW to turn on for supply. Also ask which units have contracts to California (Exempt from AB32)
 - o Assigned To: Jon Jensen and Anuj Patil
 - o Due Date: June 26, 2024

13. Upcoming Meetings

| June 26, 2024 | Virtual |
|---------------|---------|
| July 10, 2024 | Virtual |
| July 17, 2024 | Virtual |
| July 31, 2024 | Virtual |

14. Adjourn

Mr. Harris adjourned the meeting without objection at 11:04 a.m.



PCDS Meeting Minutes—June 19, 2024

Exhibit A: Attendance List

Members in Attendance

| Jennifer Galaway | Portland General Electric Company | |
|--|--|--|
| Kevin Harris | Pacific Northwest National Laboratory | |
| Richard Jensen | | |
| Jon Jensen | WECC | |
| Chelsea Loomis | Western Power Pool | |
| Kimberly McClafferty | | |
| Effat Moussa | San Diego Gas and Electric | |
| Chifong Thomas | | |
| Members not in Attendance | | |
| Tyler Butikofer | Energy Strategies | |
| Renchang Dai | Puget Sound Energy, Inc. | |
| Jose Diaz | Los Angeles Department of Water and Power | |
| Sylvia Gard | Puget Sound Energy, Inc. | |
| Michael Granados | Los Angeles Department of Water and Power | |
| Anders Johnson | Bonneville Power Administration—Transmission | |
| Eliana Orta | Imperial Irrigation District | |
| Nader Samaan | Pacific Northwest National Laboratory | |
| Gary Simonson | | |
| Bharat Vyakaranam | Pacific Northwest National Laboratory | |
| Stan Williams | Bonneville Power Administration—Transmission | |
| Di Xiao | Southern California Edison Company | |
| Yi Zhang | California Independent System Operator | |
| Others in Attendance [Only for technical committees] | | |
| Keith Ban | SDGE | |
| Ashton Davis | WECC | |
| Agnieszka Hernandez | LRE | |



PCDS Meeting Minutes—June 19, 2024

| Joey Jones | WECC |
|--------------|------|
| C.D. McClean | CEC |
| Anui Patil | WECC |

