

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:01 a.m. MT on July 24, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Anuj Patil, Senior 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.

The PCDS decided to change Item 8, Transmission Project Follow-up, with Item 7, Review of 2034 Anchor Data Set (ADS) Production Cost Model (PCM), which is an approval item.

On a motion by Chifong Thomas, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Harris introduced the minutes from the meeting on July 17, 2024.

On a motion by Chelsea Loomis, the PCDS approved the minutes from July 17, 2024.

5. Review Previous Action Items

Jon Jensen, Senior Engineer Reliability Modeling, reviewed action items carried over from the PCDS meeting on July 17, 2024. Action items that are not closed and will be carried forward can be found [here](#).

6. Announcements

There were no announcements.

7. Transmission Projects Follow-up

Mr. Jensen gave a follow-up on the SunZia HVDC, TransWest Express (TWE), and Southwest Intertie Project (SWIP) North projects. SunZia is in the 2034 ADS PCM V2 case and is represented correctly. He wanted to wait for the case to be up and running before providing the

TWE and SWIP North change sets. If the PCDS approves the 2034 ADS PCM V2 today, Mr. Jensen will create and provide the TWE and SWIP North change sets.

8. Review of 2034 ADS PCM V2

Mr. Jensen and Mr. Patil presented on approval item ADS PCM V2. Mr. Jensen started with an update from the previous run and the items that were added or changed for the most recent run.

Next, he showed information for SunZia, which showed it represented as two DC terminals connected to Bus 15080 PINAL_C, and two generators on each terminal (Firm and Non-firm). For Path 66 California-Oregon Intertie (COI), there was an issue with a deadband, which has been fixed. A duplicate path proved to be the problem. Mr. Jensen will look for more duplicate paths and review for any issues on them later. Path 65 Pacific DC Intertie (PDCI) seemed to also have deadband, but he confirmed with Hitachi that it is working as modeled, but we can change it if needed.

Next, he showed a chart of annual energy (GWh), it had information on thermal, other, DG-BTM, energy storage, hydro, nuclear, photovoltaic (PV), and wind comparison for V1 and V2_H7 SunZia plus GenAdd.

Then he showed information on the annual net interchange showing the amount of net flow from region to region. The next chart had congestion hours and costs by branch and interface. That information is posted on the PCDS team site.

Mr. Jensen then showed a chart of the most heavily utilized paths for V1 and V2, then comparisons for hourly flow for Path 27, Path 66, COI+PDCI, Path 65, and Path 26. Some of the paths are hitting the limits, so the PCDS decided to make the limits a discussion topic for a future meeting.

Then he showed a comparison chart of COI+PDCI hourly flow (N-S positive x-axis), hydro flow generations (MWh) and California solar hourly generations (MWh).

Mr. Jensen then showed a plot of Matl hourly power flow. He will complete the change cases and make them available next week. The approval of this case, with exception of the change cases for TWE (with high wheeling into PAC) and SWIP North, will be provided when complete, and we will check for duplicate path definitions before posting.

The presentation is on the WECC website.

On a motion by Yi Zhang, the PCDS approved the 2034 ADS PCM V2 as presented.

9. Keeping Track of GridView Issues

The PCDS did not discuss GridView issues.



10. Public Comment

The subcommittee decided to cancel the meeting on July 31, 2024.

11. Review New Action Items

- Implement year 2018 SunZia profiles
 - Assigned To: Martin Green
 - Due Date: August 14, 2024
- Phase angle regulator review (MW min/max)
 - Assigned To: PCDS
 - Due Date: August 14, 2024
- Path65 review (26099-26094 derate) Path 65 limit review (operational limits)
 - Assigned To: Michael Granados & PCDS
 - Due Date: August 14, 2024
- Path66, P26 hours violating limits
 - Assigned To: Jon Jensen & Anuj Patil
 - Due Date: August 14, 2024
- TransWest Express – review wheeling modeling with Hitachi
 - Assigned To: Jon Jensen & Anuj Patil
 - Due Date: August 14, 2024
- SWIP North – Interfaces affected
 - Assigned To: Jon Jensen & Anuj Patil
 - Due Date: August 14, 2024

12. Upcoming Meetings

August 14, 2024..... Virtual
August 28, 2024..... Virtual
September 11, 2024 Virtual

13. Adjourn

Mr. Jensen adjourned the meeting without objection at 11:31 a.m.



Exhibit A: Attendance List

Members in Attendance

Jennifer GalawayPortland General Electric Company
Michael Granados..... Los Angeles Department of Water and Power
Martin GreenPattern Energy Group LP
Kevin Harris Pacific Northwest National Laboratory
Richard Jensen..... California Energy Commission
Jon Jensen.....WECC
Anders Johnson.....Bonneville Power Administration—Transmission
Chelsea LoomisWestern Power Pool
Kimberly McClaffertyNorthWestern Energy
Effat Moussa..... San Diego Gas and Electric
Eliana OrtaImperial Irrigation District
Chifong Thomas Thomas Grid Advisor
Yi Zhang.....California Independent System Operator

Members not in Attendance

Tyler ButikoferEnergy Strategies
Max Code.....Pattern Energy Group LP
Renchang DaiPuget Sound Energy, Inc.
Jose Diaz..... Los Angeles Department of Water and Power
Sylvia GardPuget Sound Energy, Inc.
Nader Samaan..... Pacific Northwest National Laboratory
Gary Simonson.....PacifiCorp
Bharat Vyakaranam..... Pacific Northwest National Laboratory
Stan WilliamsBonneville Power Administration—Transmission
Di Xiao..... Southern California Edison Company

Others in Attendance [Only for technical committees]

Jose CastanedaImperial Irrigation District



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Ashton Davis.....WECC
Joshua Hurst..... Los Angeles Department of Water and Power
Jahami Hassan..... Los Angeles Department of Water and Power
Joey Jones.....WECC
Anuj PatilWECC
Joshua Phillips.....Southwest Power Pool
Jiewei Zheng..... Los Angeles Department of Water and Power

