

1. Welcome, Call to Order, Introductions

Tracy Rolstad, System Review Subcommittee (SRS) Chair, called the meeting to order at 10:00 a.m. on June 14, 2022. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Logan Affleck, System Stability Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Mr. Rolstad introduced the proposed meeting agenda.

Modifications were made.

On a motion by Scott Beyer, the SRS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Rolstad introduced the minutes from the meeting on April 14, 2022.

On a motion by Scotty Beyer, the SRS approved the minutes from April 14, 2022.

5. Review of Previous Action Items

Natalie Carter, Administrative Coordinator reviewed action items carried over from the SRS meeting on April 14, 2022. Action items that are not closed and will be carried forward can be found [here](#).

6. PSLF Version Update

Mr. Affleck gave an update on the positive sequence load flow (PSLF) version. WECC staff plans to stop publishing base cases in version 21 of PSLF to the WECC website. Exporting the numbers from version 22 to 21 does not present issues.

7. Late Data Log Update

Mr. Affleck presented an update on the late data log. There are a few entities that consistently submitted late data, and some data is still needed to complete the data log. The five-year summer (HS) case has late data. The SRS was encouraged to submit whatever data is available with a note to WECC staff when data is due.

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

8. DPM Change Request, Order of Seasons

Mr. Affleck presented the data preparation manual (DPM) change requests and order of seasons. There was a request to swap the order of the fall and spring ratings. This might cause a column swap. The changes would go into effect next year. Concern was expressed about combing automation for ratings, and it would require recoding.

By consensus the SRS approved DPM change request.

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

9. DPM Change Request, Contingency information collection

Mr. Affleck presented the DPM change request and contingency information collection. There was a request to remove the requirement to share contingency data with WECC during the base case build process.

By consensus the SRS approved the DPM change request.

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

10. 2023 Specialized Case Requests

Mr. Affleck presented the 2023 specialized case requests and updates. The SRS discussed the specialized cases. There is time allotted for two out of the four specialized events on the schedule.

By consensus the SRS approved the heavy spring exports from the south specialized event.

By consensus the SRS objected the two-year heavy summer case specialized event.

By consensus the SRS objected two-year heavy spring case specialized event.

By consensus the SRS approved the OSS light spring from California to the West specialized event.



11. 2023 Base Case Compilation Schedule

Mr. Affleck presented the 2023 base case compilation schedule. It began a few weeks later than the prior schedule. It allows less overlap between cases than the current schedule. The last case will be sent the week of September 25.

By consensus the SRS approved the 2023 Base Case Compilation Schedule.

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

12. Resource Deficit Issues in 2032-33 HW1

Scott Beyer, Western Power Pool (WPP), discussed resource issues Northwest observed while preparing the 2032-33 heavy winter (HW) 1 planning base case. Significant load increases occurred in the North. There will be a need to know where the resources are coming from to serve the ten-year base case.

Mr. Rolstad led the discussion on the resource deficit issues. There are not enough resources in the Northwest to achieve export targets in California. It's important to communicate with regulators and data submitters.

Ronnie Lau, Pacific Gas and Electric (PG&E), discussed what is being seen in California's exports. PG&E relies on the North to South flow from the Northwest. Not enough resources are being brought in from the North. This could provide danger to California. There is a ten-year outlook to give enough time to prepare for the future. The SRS discussed the resource outlook for the next ten-years.

13. Base cases

Karen Reedy, Public Service Company of New Mexico (PNM) led the discussion on modeling of pseudo ties in base cases. There are a lot of renewable resources that can be exported to other areas creating the need for pseudo ties. The SRS discussed that fully populating the BA will help. Ms. Reedy will research and provide DPM ideas changes pseudo ties.

14. WECC 2022 Scorecard Item Discussion

Mr. Affleck presented WECC's 2022 scorecard. The focus will be to assess and initiate action to mitigate known and emerging risks to the reliability and security of the Western Interconnection. The target is to reduce the selected shortcomings by 10%. Mr. Affleck presented the base case quality strategy and the prioritized list. The SRS discussed holding a base case 101 workshop in conjunction with the prioritized list. Mr. Affleck presented the Model Shortcoming Strategy Document. It includes a prioritized list of shortcomings. A survey was sent out in March asking about using default data in the Master Dynamics File. There were twenty responses. Most of the responses support the use of the default data in the MDF. The



majority selected that the reasonable cutoff is 10-20 MW range. Most who submit generators without dynamics did so due to not having the test data available. The SRS discussed that updating and maintaining SADD will be beneficial.

On a motion by Kalin Lee, the SRS approved the 2022 Scorecard Prioritized List.

On a motion by Louis Vigil, the SRS approved the Model Shortcoming Strategy Document.

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

15. Use of LDST vs TLIN for UFLS

Mr. Rolstad led the discussion on using LDST vs TLIN for UFLS. LDST should be used for underfrequency load shedding. TLIN should be for under voltage or underfrequency separation schemes.

16. Public Comment

No comments were received.

17. Review of New Action Items

- Work to resolve the resource adequacy issues in the 2032-33 HW1 case
 - Assigned To: Scotty Beyer, Ronnie Lau, Logan Affleck, and Nick Hatton.
 - Due Date: August 9, 2022
- Create a list of DPM ideas for pseudo-ties
 - Assigned To: Karen Reedy
 - Due Date: August 9, 2022
- Update and maintain the SADD
 - Assigned To: Tracy Rolstad, and Logan Affleck
 - Due Date: August 9, 2022
- Hold base case 101 workshop in conjunction with the prioritized list.
 - Assigned To: Logan Affleck, and Tracy Rolstad
 - Due Date: August 9, 2022

18. Upcoming Meetings

August 9-10, 2022.....Salt Lake City, UT

October 12-13, 2022.....Virtual

December 8, 2022Virtual

**Meeting may be virtual due to the COVID-19 pandemic.*



19. Adjourn

Mr. Rolstad adjourned the meeting without objection at 11:30 a.m.



Exhibit A: Attendance List

Members in Attendance

Jyotsna Chatrati NV Energy

Stephanie Benjes Western Area Power Administration - Desert Southwest Region

Scott Beyer Western Power Pool (formerly Northwest Power Pool Corporation)

Jess Boatwright..... NorthWestern Energy

Benjamin Borowiak Arizona Electric Power Cooperative, Inc. (Arizona G&T Cooperatives)

Kevin Brooks Southern California Edison Company

Ron Calvert..... Utility System Efficiencies, Inc.

Ken Che..... Public Utility District No. 1 of Snohomish County

Frank Chen California Independent System Operator

Lance Felleson PacifiCorp

Talal Hanna San Diego Gas and Electric

Robert Jones..... Seattle City Light

Yara Khalaf Public Utility District No. 1 of Snohomish County

Christopher Lamb..... Public Utility District No. 1 of Chelan County

May Le..... Public Utility District No. 2 of Grant County

Kevin Lindquist Tri-State Generation and Transmission—Reliability

Mark Mallard NorthWestern Energy

Nik Mikelsons Portland General Electric Company

Linda Pope..... Western Area Power Administration

Ryan Price Sacramento Municipal Utility District

Tracy Rolstad..... Public Utility District No. 2 of Grant County

Angel Omar Sandoval..... Salt River Project

Rick Torres..... Imperial Irrigation District

Matt Twardy..... Public Service Company of Colorado (Xcel Energy)

Louis Vigil..... El Paso Electric Company

Scott Wilson..... Avista Corporation



Joanna Yang.....Puget Sound Energy, Inc.

Members Not in Attendance

Sabbir AhmedAlberta Electric System Operator

Eric BakieIdaho Power Company

Simrit BasraiPacific Gas and Electric Company

Daniel Baye.....PacifiCorp

Ben BrownleeEnergy Strategies

Horea CatanesePower System Consultants, Inc.

Desmond ChanSeattle City Light

Manuelito ChiefTucson Electric Power

Gene DuranPublic Service Company of Colorado (Xcel Energy)

Jennifer GalawayPortland General Electric Company

William GibsonHetch Hetchy Water and Power

Jessica HarrisNorth American Electric Reliability Corporation

Vera HartCalifornia Independent System Operator

Kody HeppnerTurlock Irrigation District

Emily Hnatishin.....Puget Sound Energy, Inc.

Ben HutchinsPower System Consultants, Inc.

Moises IndaCentro Nacional de Control de Energia

Lesley Kayser-Sprouse.....Hetch Hetchy Water and Power

James Keller.....Western Area Power Administration - Rocky Mountain Region

Seongtae KimPacifiCorp

Slaven KincicPacific Northwest National Laboratory

Peter Mackin.....GridBright, Inc.

Mark Pigman.....Tacoma Power

Kenny PoonBritish Columbia Hydro and Power Authority

Atique RahmanLos Angeles Department of Water and Power

Daniel Ramirez.....Energy Strategies



Juan Sanchez-Gasca..... GE Energy Consulting Group
Khanh Thai Tacoma Power
Chifong Thomas Thomas Grid Advisor
Greg Travis Idaho Power Company
GuiHua Wang British Columbia Hydro and Power Authority

Others in Attendance

Logan Affleck WECC
Tatum Begay Salt River Project
Jessica Benitez Los Angeles Department of Water and Power
Kent Bolton WECC
Theo Brown Southwest Power Pool
Daniel Cervantes Los Angeles Department of Water and Power
Enoch Davies WECC
Jim Ding British Columbia Hydro and Power Authority
Donna Enriquez El Paso Electric Company
Al Francis De Vera NV Energy
Bart Gannon Western Area Power Administration
Linnea Gentry Idaho Power Company
Robert Gerdes Arizona Public Service Company
Ben Green PacifiCorp
Jeff Hanson Colorado Springs Utilities
Jonathan Hayes Southwest Power Pool
Ivana Kezic San Diego Gas & Electric
Adriel Lau British Columbia Hydro and Power Authority
Ronnie Lau Pacific Gas and Electric Company
Kalin Lee Bonneville Power Administration
Nicole Lee WECC
Yan Ma Salt River Project



Jeff Newby Western Area Power Administration - Desert Southwest Region
Catalnie Nunez Centro Nacional de Control de Eneregia
Piyasak Poonpun Sacramento Municipal Utility District
Karen Reedy Public Service Company of New Mexico
Kim Seongtae PacifiCorp
Alexander Stewart Bonneville Power Administration
Muhammad Tayyab Western Area Power Administration
Doug Tucker WECC
Jerod Vandehey Public Utility District No. 1 of Cowlitz County

