

1. Welcome, Call to Order, Introductions

Tracy Rolstad, System Review Subcommittee (SRS) Chair, called the meeting to order at 1:00 p.m. MT on August 9, 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 Planning 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.

On a motion by Slaven Kincic, the SRS approved the agenda.

4. Review and Approve Previous Meeting Minutes

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

By consensus, the SRS approved the minutes from June 14, 2022.

5. Review of Previous Action Items

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

6. Charter Review

Mr. Affleck presented the SRS charter. Red-line modifications were made. They will be submitted to WECC's technical writer and Mr. Affleck will check with WECC's legal to see if online voting can be added to the charter.

On a motion by Emily Hnatishin the SRS approved the SRS Charter edits.

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

7. 2023 Data Preparation Manual

Mr. Affleck presented the 2023 Data Preparation Manual (DPM). A recommendation was made to add resource forecast to support the loads for future cases.

Mr. Rolstad led the discussion on the 2023 DPM and understanding the flow to build the base cases. Data submitter communication needs to continue and be maintained on a regular basis. The SRS discussed updating the naming convention to mark PSLF-exclusive fields with an asterisk.

On a motion made by Emily Hnatishin the SRS approved the 2023 Data Preparation Manual modifications.

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

8. Short Circuit Modeling Work Group Update (SCMWG)

Amos Ang, SCMWG chair, presented a SMWG update. The SRS discussed short circuit and inverter-based generation and how quickly it is evolving.

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

9. Geomagnetic Disturbance (GMD) Data Collection Update

Nick Hatton, System Stability Staff Engineer, gave an update for the GMD data collection. There were a lot of changes made. The summer cases will be posted at the end of this week. The checks were validated, and the goal is to have results within an hour. The SRS discussed considering populating GMD data. The GMD study is done every five years. The Northwest is primarily responsible for winter exports. There were generation changes in British Columbia (BC) in the 2032-33 heavy winter case. A high wind hour snapshot change will assist member studies. The case description sheet will add a note to change the dispatch. The SRS discussed the importance of being proactive.

10. Resource Adequacy Issues in 2032-33 heavy winter (HW)1

Mr. Hatton and Scott Beyer, Western Power Pool (WPP), gave an update on the resource adequacy issues in the 2032-2033 HW1. Encouragement was made to talk to companies to see what acceptable and accessible thresholds. This subject will be discussed further during a future meeting.

11. Power Flow (PF) Basics and Trivia

Mr. Rolstad presented the power flow basics and a trivia. The PF needs to be accurate because it is used to build base cases. The West documents and shares models. The DPM is updated yearly and assists with how data should be used. The SRS discussed changing thresholds might not be beneficial.



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

12. Base Case Late Data Procedure

Mr. Affleck gave an update on the base case late data procedure. If a data submittal is missed or not usable the WECC staff will notify the data submitter. It will then reviewed by the Reliability Assessment Committee (RAC) and the System Review Subcommittee (SRS). There is a large abundance of late data which leaves a short turnaround for WECC staff. WECC will be drafting a letter for late data. The SRS WECC website page has a TeamSite section with a folder that contains the interchanges. If two cells do not match it will be highlighted. Encouragement was made to talk to organizations and follow compliance to prevent late data submittals.

13. Electromagnetic Modeling Transients Task Force Update

Mr. Rolstad gave an update on the Electromagnetic Modeling Transients Task Force (EMTTF). It is a new task force. The first EMTTF meeting was held that included a data presentation. The next meeting will focus on how to assist WECC with having models over the West for studies. The SRS discussed asking software suppliers to present during the next SRS meeting.

14. Public Comment

The SRS discussed travel and there are organizations that have not budgeted for it yet.

15. Review of New Action Items

- Communicate resource adequacy difficulties and request the StS study a 10-year light case.
 - Assigned To: Tracy Rolstad and Logan Affleck
 - Due Date: October 12, 2022
- Review the SRS membership list and send email out to people that do not want to be members.
 - Assigned To: Logan Affleck and Nicole Lee
 - Due Date: October 12, 2022
- Update the DPM to show PSLF-specific Data and reflect new number of PSSE ratings and add asterisks
 - Assigned To: Nick Hatton
 - Due Date: October 12, 2022

16. Upcoming Meetings

October 12, 2022.....Virtual

December 8, 2022Virtual



17. Adjourn

Mr. Rolstad adjourned the meeting without objection at 11:00 a.m.

SRS Workshop—August 9, 2022

The SRS held a workshop on August 9, 2022 from 1:00 p.m. to 5:00 p.m. The follow topics were presented:

- Base Case 101;
- Generator Test Reports;
- Making Data Updates Stick;
- Data Collection and Area Coordination;
- NERC Case Quality Metrics; and
- WECC Scorecard Error Reductions.

There will be another workshop held that will be recorded and posted online.



Exhibit A: Attendance List

Members in Attendance

Simrit Basrai Pacific Gas and Electric Company

Stephanie Benjes Western Area Power Administration - Desert Southwest Region

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

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

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

Jyotsna Chatrati NV Energy

Frank Chen California Independent System Operator

Tuan Dang Public Utility District No. 1 of Snohomish County

Lance Felleson..... PacifiCorp

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

Ben Hutchins Power System Consultants, Inc.

Moises Inda Centro Nacional de Control de Energia

Robert Jones..... Seattle City Light

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

Yara Khalaf Public Utility District No. 1 of Snohomish County

Seongtae Kim PacifiCorp

Slaven Kincic Pacific Northwest National Laboratory

Joshua Kitterman Tucson Electric Power

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

Matthew Reali TransCo Energy, LLC

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



Angel Omar Sandoval.....Salt River Project
Khanh Thai Tacoma Power
Chifong Thomas Thomas Grid Advisor
Rick Torres.....Imperial Irrigation District
Matt Twardy.....Public Service Company of Colorado (Xcel Energy)
Louis Vigil..... El Paso Electric Company
GuiHua Wang British Columbia Hydro and Power Authority
Scott Wilson.....Avista Corporation
Joanna Yang.....Puget Sound Energy, Inc.

Members not in Attendance

Eric BakieIdaho Power Company
Daniel Baye.....PacifiCorp
Jess Boatwright.....NorthWestern Energy
Ben Brownlee Energy Strategies
Horea CatanesePower System Consultants, Inc.
Desmond Chan Seattle City Light
Gene DuranPublic Service Company of Colorado (Xcel Energy)
Jennifer GalawayPortland General Electric Company
Talal Hanna San Diego Gas and Electric
Jessica HarrisNorth American Electric Reliability Corporation
Vera HartCalifornia Independent System Operator
Kody Heppner Turlock Irrigation District
James Keller.....Western Area Power Administration - Rocky Mountain Region
Peter Mackin..... GridBright, Inc.
Mark Pigman..... Tacoma Power
Kenny Poon British Columbia Hydro and Power Authority
Ryan Price Sacramento Municipal Utility District
Atique Rahman Los Angeles Department of Water and Power



Daniel Ramirez.....Energy Strategies
Tracy Rolstad.....Public Utility District No. 2 of Grant County
Juan Sanchez-Gasca.....GE Energy Consulting Group
Greg TravisIdaho Power Company
Jimmy Zhang.....Alberta Electric System Operator

Others in Attendance

Logan Affleck.....WECC
Jeff Anderson.....Western Area Power Administration
Tatum Begay.....Salt River Project
Jessica BenitezLos Angeles Department of Water and Power
Laryn Brinkman.....Public Utility District No. 1 of Chelan County
Theo BrownSouthwest Power Pool
Daniel Cervantes.....Los Angeles Department of Water and Power
Ken Che.....Public Utility District No. 1 of Snohomish County
Manuelito ChiefTucson Electric Power
Enoch Davies.....WECC
Al Francis De Vers.....NV Energy
Donna EnriqueEl Paso Electric Company
Roberto FavelaEl Paso Electric Company
Curt FeinbergTri-State Generation and Transmission—Reliability
Kevin FeusieGridPlanning Inc.
Bart GannonWestern Area Power Administration
Matt GarciaImperial Irrigation District
Linnea GentryIdaho Power Company
Darold Green.....PacifiCorp
Jeff HansonColorado Spring Utilities
Nick HattonWECC
Mensure Havock.....Western Area Power Administration



Jonatahn HayesSouthwest Power Pool
Adrian Horner.....Public Service Company of Colorado (Xcel Energy)
Geoff Johnson.....Public Service Company of Colorado (Xcel Energy)
Ronnie Lau..... Pacific Gas and Electric Company
Kalin Lee Bonneville Power Administration
Nicole LeeWECC
Luis Leon Arizona Public Service Company
John Liang..... Public Utility District No. 1 of Snohomish County
Olushola Lutalo NERC
Richard MaguirePublic Utility District No. 2 of Grant County
Ron Markham Pacific Gas and Electric Company
Christopher Mclean..... California Energy Commission
Nima Miri Seattle City Light
Jeff Newby Western Area Power Administration
Tyson Niemann.....WECC
Jose Santamaria..... Comision Federal de Electricidad
Amanuel Selassie Los Angeles Department of Water and Power
Elaine SunPublic Service Company of Colorado (Xcel Energy)
Spencer Tacke.....Auriga Corporation
Muhammad Tayyab..... Western Area Power Administration
Doug Tucker.....WECC
Robert Wade..... San Diego Gas and Electric
Trevor Werho..... Arizona Public Service Company

