

1. Welcome, Call to Order

Tracy Rolstad, System Review Subcommittee (SRS) Chair, called the meeting to order at 1:05 p.m. MT on October 12, 2022. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Logan Affleck, Systems 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.

On a motion by Angel Sandoval, the SRS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Rolstad introduced the minutes from the meeting on August 9, 2022.

On a motion by Emily Hnatishin, the SRS approved the minutes from August 9, 2022.

5. Review Previous Action Items

Marie Smith, Administrative Coordinator, reviewed action items carried over from the SRS meeting on August 9, 2022. Action items that are not closed and will be carried forward can be found [here](#).

6. RAS Files Best Practices

Mr. Affleck gave an update on the Remedial Action Scheme (RAS) files. He asked attendees to contact him about interest in the RAS database, since creating one large RAS file would be difficult. He stated there is a problem in the seasonal RAS files and testing the right files. Mr. Affleck discovered there are no clear messages when data is being overwritten.

7. Including Non-Utility Projects in Base Cases

Nick Hatton, Systems Stability Engineer, led a discussion on including non-utility projects in the base cases. There are criteria that must be met in base cases. The SRS members discussed that there is no notice to proceed or interconnection agreement and asked for careful consideration about more specific criteria. Since there are planned projects to be studied, some should be included in the cases. SRS suggested putting the projects in a five-year case.

Some entities clearly identify and track everything submitted for both utility and non-utility. Mr. Rolstad suggested that communication should be sent to him, Mr. Hatton, and Mr. Affleck. It was also suggested projecting for the 10-year cases for customer-based service.

This discussion will continue at the next SRS meeting since there is still a need to get these projects into a WECC base cases.

8. DPM Change Request—Shunt IDs

Mr. Hatton introduced the Data Preparation Manual (DPM) change request for shunt IDs.

By consensus, the SRS approved the DPM change request for shunt IDs.

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

9. Generator Test Reports

Kent Bolton, Senior System Stability Engineer, gave an update on the Generator Testing Program. It states what generator tests should be done and how to submit dynamic models to WECC. The generator test reports are sent to Gentest@wecc.org. Mr. Bolton stated that more information can be requested by sending him an email. Mr. Bolton mentioned that a tracking sheet is maintained by WECC staff.

10. Heavy Spring Operating Case Discussion

The SRS discussed the heavy spring operating case. Some organizations do not use these cases in their planning departments. Others stated that their organizations have used and will continue to use heavy spring cases.

Mr. Hatton stated there may be a staffing issue if trying to do more cases. All case requests should be submitted by email for SRS discussion. Most of the specialized cases requested each year are spring base cases. It was suggested that the SRS discuss heavy spring case versus a spring operating case.



11. 2024 Spring Specialized Case Discussion

Mr. Affleck led the discussion on the 2024 spring specialized case. Changes were made to the case description sheet after the data request went out. The goal of the case is to represent anticipated operating conditions during light net load periods. The data will come into WECC on October 28, 2022.

12. DPM Change Request—CSU to Move Areas

Mr. Affleck presented the Data Preparation Manual Change (DPM) Request for Colorado Springs Utilities (CSU) moving bus number area A70 to area A73.

On a motion by Jeff Hanson, the SRS approved the DPM change request for CSU.

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

13. Voltage Source Converter Modeling Discussion

Mr. Rolstad led the discussion on best practices for modeling Voltage Source Converters (VSC) and other DC equipment. A DPM change request might need to be submitted so that a draft power flow (PF) is modified to include the DC transmission lines. Mr. Rolstad will draft a DPM change request for VSC modeling.

14. JGC Charter Template Updates

Mr. Affleck gave an update on the changes the Joint Guidance Committee (JGC) made to the updated SRS Charter. The updated charter template does not allow modifications to specific sections. The SRS discussed concern about removing alternates.

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

15. Member Travel Plans for 2023

Mr. Affleck led the discussion on the memberships travel plans for 2023. WECC is holding in-person meetings. The SRS discussed holding three to four in-person meetings next year. Some organizations are allowing travel and others are not allowing travel through the winter.

16. Public Comment

No comments were offered.

17. Review New Action Items

- Post tracking spreadsheet to WECC internal website.
 - Assigned To: Kent Bolton
 - Due Date: October 12, 2022



- DPM change: Guidance for submission of data on future projects.
 - Assigned To: Nick Hatton
 - Due Date: December 8, 2022
- Create welcome to SRS meeting materials.
 - Assigned To: Tracy Rolstad
 - Due Date: December 8, 2022
- Work on DPM change request for voltage source converter modeling.
 - Assigned To: Tracy Rolstad
 - Due Date: December 8, 2022
- Contact JGC and email the SRS an update about the charter.
 - Assigned To: Logan Affleck
 - Due Date: December 8, 2022

18. Upcoming Meetings

December 8, 2022Virtual

19. Adjourn

Mr. Rolstad adjourned the meeting without objection at 4:06 p.m.



Exhibit A: Attendance List

Members in Attendance

Stephanie Benjes Western Area Power Administration - Desert Southwest Region

Jess Boatwright.....NorthWestern Energy

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

Jyotsna ChatratiNV Energy

Frank ChenCalifornia Independent System Operator

Tuan Dang Public Utility District No. 1 of Snohomish County

Lance Felleson PacifiCorp

Matthew Gomez Southern California Edison Company

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

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

Kalin Lee Bonneville Power Administration

Kevin Lindquist Tri-State Generation and Transmission—Reliability

Mark MallardNorthWestern Energy

Nik MikelsonsPortland 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

Chifong Thomas Thomas Grid Advisor

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

Louis Vigil..... El Paso Electric Company

GuiHua Wang British Columbia Hydro and Power Authority

Trevor Werho Arizona Public Service Company



Scott Wilson.....Avista Corporation
Joanna Yang.....Puget Sound Energy, Inc.
Jimmy Zhang.....Alberta Electric System Operator

Members not in Attendance

Sabbir AhmedAlberta Electric System Operator
Simrit Basrai Pacific Gas and Electric Company
Ian Beil.....Portland General Electric Company
Scott BeyerWestern Power Pool (formerly Northwest Power Pool Corporation)
Ron Calvert..... Utility System Efficiencies, Inc.
Horea Catanese Power System Consultants, Inc.
Desmond Chan Seattle City Light
Gene DuranPublic Service Company of Colorado (Xcel Energy)
Linnea GentryIdaho Power Company
Darold Green.....PacifiCorp
Talal Hanna San Diego Gas and Electric
Jeff HansonColorado Springs Utilities
Jessica HarrisNorth American Electric Reliability Corporation
Vera HartCalifornia Independent System Operator
Kody HeppnerTurlock Irrigation District
Ben HutchinsPower System Consultants, Inc.
Moises IndaCentro Nacional de Control de Energia
Daniel Johnson Jr.Black Hills Corporation
Robert Jones.....Seattle City Light
Lesley Kayser-Sprouse..... Hetch Hetchy Water and Power
James Keller.....Western Area Power Administration - Rocky Mountain Region
Yara KhalafPublic Utility District No. 1 of Snohomish County
Seongtae KimPacifiCorp
Peter Mackin.....GridBright, Inc.



Patrick PerryIdaho Power Company
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
Juan Sanchez-Gasca..... GE Energy Consulting Group
Gary Simonson..... Energy Strategies
Alex StewartBonneville Power Administration—Transmission
Khanh Thai Tacoma Power
Rick Torres.....Imperial Irrigation District

Others in Attendance

Logan AffleckWECC
Tatum Begay.....Salt River Project
Al Francis De Vera.....NV Energy
Donna Enriquez El Paso Electric Company
Bart Canon..... WAPA
Robert Gerdes..... Arizona Public Service Company
Ben Green.....PacifiCorp
Mensur Haskovic..... Western Area Power Pool
Nick HattonWECC
Ivana Kezic San Diego Gas and Electric
Mike Larsen Public Utility District No. 1 of Cowlitz County
Adriel Lau British Columbia Hydro and Power Authority
Ronnie Lau..... Pacific Gas and Electric Company
Nicole LeeWECC
Chief Manuelito Tucson Electric Power
Christopher Mclean..... California Energy Commission



Nima Miri	Seattle City Light
Jeff Newby	Western Area Power Pool
William Parker	WECC
Karen Reedy	Public Service Company of New Mexico
Kim Seongate	PacifiCorp
Marie Smith	WECC
Muhammad Tayyab	Western Area Power Pool
Patrick Truong	Sacramento Municipal Utility District

