

## **1. Welcome, Call to Order**

Jeffrey Anderson, System Review Subcommittee (SRS) Chair, called the meeting to order at 10:05 a.m. MT on October 10, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

## **2. Review WECC Antitrust Policy**

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

## **3. Approve Agenda**

J. Anderson introduced the proposed meeting agenda.

**On a motion by Karen Reedy, the SRS approved the agenda.**

## **4. Review and Approve Previous Meeting Minutes**

J. Anderson introduced the minutes from the meeting on August 8, 2024.

**On a motion by Logan Affleck, the SRS approved the minutes from August 8, 2024.**

## **5. Review Previous Action Items**

Serena Stiehl, Administrative Coordinator, reviewed action items carried over from the SRS meeting on August 8, 2024. Action items that are not closed and will be carried forward can be found on the WECC website SRS page under the Quick Links.

## **6. UFLSWG Data Needs**

Karen Reedy, Public Service Company of New Mexico (PNM), discussed how base case data improvements can help the Underfrequency Load Shedding Work Group (UFLSWG) perform its analysis. At the October 8, 2024, UFLSWG meeting, the UFLSWG discussed whether the SRS should start requiring more data from base case submitters.

K. Reedy requested that the SRS get the Steady-State and Dynamics Dashboard (SADD) to count for the UFLS LSDT9 card with missing models and have area coordinators review. K. Reedy also requested the Remedial Action Scheme (RAS) models be updated in the dynamics simulations to allow the UFLSWG to model RAS appropriately and have an accurate

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representation of the system response, and for the SRS to start modeling any other automatic protection that might not need the RAS definition but would help with voltage control.

K. Reedy will draft a DPM change request for the use of RAS in dynamics, and L. Affleck will draft a data check for loads with missing LSDT9 models.

## **7. Power Flow Impacts on Substation Components**

Jameson Thornton, Burns & McDonnell (1898 and Co.), presented on challenges studying overloads on breakers, switches, and bus sections. Due to an expanded model with new bus numbers, additional changes are likely needed, and bus and breaker outages will also be handled differently. J. Thornton recommended having a visual draw file to aid in review of results, as this will help in understanding the physical flows, likely sources, and potential mitigations.

## **8. LTPTF FERC Order 1920 Case**

Allison Auld-Hill, Southern California Edison Company (SCE), discussed FERC Order No. 1920 and the potential for a 20-year power flow case.

The Long-term Transmission Planning Task Force (LTPTF) has been actively discussing the role of WECC in creating cases for LTPTF that will support Order 1920 requirements. It was proposed that WECC is to collect and compile datasets, but not complete any studies, and WECC will extrapolate a process from the 10-year Anchor Data Set (ADS) to 20-year using the best available data and assumptions.

The SRS discussed whether the subcommittee is the correct group to perform the work and the bandwidth of resources.

## **9. Public Comment**

It was asked whether WECC staff could look at the associated material (ASMAT) and see if there is a way to separate battery charging from pumps and motors. L. Affleck will investigate ASMAT reporting of battery charging.

## **10. Review New Action Items**

- Draft DPM change request for use of RAS in dynamics.
  - Assigned To: Karen Reedy
  - Due Date: December 12, 2024
- Draft data check for loads with missing LSDT9 models.
  - Assigned To: Logan Affleck
  - Due Date: December 12, 2024



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- Investigate ASMAT reporting of battery charging
  - Assigned To: Logan Affleck
  - Due Date: December 12, 2024

**11. Upcoming Meetings**

December 12, 2024 ..... Virtual

February 13, 2025 ..... Virtual

April 10, 2025 ..... Virtual

**12. Adjourn**

J. Anderson adjourned the meeting without objection at 12:18 p.m.



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### Exhibit A: Attendance List

#### Members in Attendance

Logan Affleck.....WECC

Jeffrey Anderson.....Western Area Power Administration

Jessica Benitez .....Los Angeles Department of Water and Power

Jess Boatwright.....NorthWestern Energy

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

Christopher Brem .....Portland General Electric Company

Daniel Cervantes.....Los Angeles Department of Water and Power

Lakmal Chandrasekara.....Turlock Irrigation District

Jyotsna Chatrati .....NV Energy

Marco Ciofani.....Alberta Electric System Operator

Jackson Daly.....Idaho Power Company

Tuan Dang .....Public Utility District No. 1 of Snohomish County

Lance Felleson .....PacifiCorp

Stefano Figueroa .....Tucson Electric Power

Linnea Gentry .....Idaho Power Company

Darold (Ben) Green .....PacifiCorp

James (Jim) Hadley.....Black Hills Corporation

Jeff Hanson .....Colorado Springs Utilities

Ben Hutchins .....Western Power Pool

Moises Inda .....Centro Nacional de Control de Energia

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

Jordan Keomanivanh .....Portland General Electric Company

Joshua Kitterman .....Tucson Electric Power

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

Ronnie Lau.....Pacific Gas and Electric Company

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



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Kalin Lee ..... Bonneville Power Administration  
Richard Maguire ..... Electrical Consultants, Inc.  
Mark Mallard ..... NorthWestern Energy  
Nima Miri ..... Seattle City Light  
Emily Moore ..... Puget Sound Energy, Inc.  
Emily Parry ..... Public Utility District No. 1 of Snohomish County  
Kenny Poon ..... British Columbia Hydro and Power Authority  
Linda Pope ..... Western Area Power Administration - Rocky Mountain Region  
Ryan Price ..... Sacramento Municipal Utility District  
Karen Reedy ..... Public Service Company of New Mexico  
Daniel Sampedro ..... Imperial Irrigation District  
Ailin Sun ..... Southern California Edison Company  
Muhammad Tayyab ..... Western Area Power Administration  
Chifong Thomas ..... Thomas Grid Advisor  
Matt Twardy ..... Public Service Company of Colorado (Xcel Energy)  
Jerod Vandehey ..... Public Utility District No. 1 of Cowlitz County  
Jeff Wai ..... British Columbia Hydro and Power Authority  
GuiHua Wang ..... British Columbia Hydro and Power Authority  
Trevor Werho ..... Arizona Public Service Company  
Scott Wilson ..... Avista Corporation

### Members not in Attendance

Ernest Ansu-Gyeabour ..... Western Area Power Administration  
Ian Beil ..... Portland General Electric Company  
Nitin Bhavsar ..... Pacific Gas and Electric Company  
Ron Calvert ..... Utility System Efficiencies, Inc.  
Frank Chen ..... California Independent System Operator  
Manuelito Chief ..... Tucson Electric Power  
Gene Duran ..... Public Service Company of Colorado (Xcel Energy)



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Talal Hanna ..... San Diego Gas and Electric  
Jessica Harris ..... North American Electric Reliability Corporation  
Vera Hart ..... California Independent System Operator  
Karli Hicks ..... Salt River Project  
James Keller ..... Western Area Power Administration - Rocky Mountain Region  
Seongtae Kim ..... PacifiCorp  
Slaven Kincic ..... Pacific Northwest National Laboratory  
Pranav Kishore..... Burns & McDonnell (1898 and Co.)  
Chelsea Loomis ..... Western Power Pool  
Peter Mackin..... GridBright, Inc.  
Valeriy Jr. Oleshko..... Western Area Power Administration  
Patrick Perry ..... Idaho Power Company  
Mark Pigman..... Tacoma Power  
Matthew Reali ..... TransCo Energy, LLC  
Shengnan Shao ..... Pacific Gas and Electric Company  
Xavier Sosa ..... Southern California Edison Company  
Khanh Thai ..... Tacoma Power  
Patrick Truong ..... Sacramento Municipal Utility District  
Joanna Yang..... Puget Sound Energy, Inc.

### Others in Attendance

Auld-Hill Allison..... Southern California Edison Company  
Robby Anderst ..... Puget Sound Energy, Inc.  
Dirk Barton ..... Public Service Company of New Mexico  
Theo Brown ..... Southwest Power Pool  
Jared Campbell..... Electrical Consultants, Inc.  
Kevin Conway..... Western Power Pool  
Davies Enoch..... WECC  
Kathy Estrada..... GDS Associates, Inc.



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Mensur Haskovic..... Western Area Power Administration  
Nick Hatton .....WECC  
Ivana Kezic ..... San Diego Gas and Electric  
Hyun Joo Lee..... PacifiCorp  
Cole Mares .....Salt River Project  
Patrick Montplaisir..... Western Area Power Administration  
Jeff Newby ..... Western Area Power Administration  
Tyson Niemann.....WECC  
Catalina Nunez ..... Centro Nacional de Control de Energia  
Evan Paull.....WECC  
Anthony Rendon .....Salt River Project  
Benjamin Rodriguez..... El Paso Electric Company  
Nolan Rogers.....PacifiCorp  
Tracy Rolstad..... Advantage  
Lucie Sidibe ..... San Diego Gas and Electric  
Hari Singh..... CORE Electric Cooperative  
Serena Stiehl .....WECC  
Jameson Thornton ..... Burns & McDonnell (1898 and Co.)  
Ivan Velasco ..... City of Riverside  
Jim Whitaker .....Public Service Company of Colorado (Xcel Energy)  
Zach Zornes..... Public Utility District No. 1 of Chelan County

