

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

Peter Mackin, Studies Subcommittee (StS) Chair, called the meeting to order at 10:02 a.m. on October 1, 2020. A quorum was present to conduct business. A list of attendees is attached as Exhibit A. Mr. Mackin asked attendees to introduce themselves.

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

Stan Holland, Senior System Adequacy Planning Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

## **3. Approve Agenda**

Mr. Mackin introduced the proposed meeting agenda.

**On a motion by Chifong Thomas, the StS approved the agenda.**

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

Mr. Mackin introduced the minutes from the meetings on September 2, September 14, and September 23, 2020.

**On a motion by Tom Carr, the StS approved the minutes from September 2, September 14, and September 23, 2020.**

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

Camille Duncan, Administrative Assistant, reviewed action items carried over from the StS meeting on September 23, 2020. Action items that are not closed and will be carried forward can be found [here](#).

## **6. 2019 Study Program Future Work Recommendations**

Jon Jensen, System Adequacy Planning Engineer, presented the follow-up work recommended from the 2019 Study Program. The StS suggested other aspects that should or could be studied to help build on the previous studies, such as rate of change of frequency (RoCoF).

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

## 7. Consolidation of 2020-2021 Study Program Proposals

Mr. Jensen presented a consolidation of proposals submitted for the 2020–2021 study program. He reviewed the common themes and what type of reliability risk priority is addressed in the proposal. The StS suggested trimming down the key reliability questions to be more concise.

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

## 8. Project Coordination, Path Rating, and Progress Report Processes

Rikin Shah, PacifiCorp, presented an update on the Path Rating Process Task Force (PRPTF). He informed the StS the PRPTF received several comments during the public comment period and these were addressed by the PRPTF.

**On a motion by Rikin Shah, the StS approved the Project Coordination, Path Rating, and Progress Report Processes.**

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

## 9. RAC 3-year Work Plan

Mr. Jensen presented the draft three-year work plan for the StS. The StS added additional items, such as the work of its subgroups, the geomagnetic disturbance (GMD) study, and the 2022 Study Program. The document will be used to update the Reliability Assessment Committee (RAC) work plan.

## 10. Public Comment

No comments were received.

## 11. Review of New Action Items

- Discuss with OC Chair (Jon Aust) the UFLSWG chair term recommendation about not restarting the chair term at the approval of the charter and leaving Hari Singh as UFLSWG chair until his term expires.
  - Assigned To: Peter Mackin
  - Due Date: October 14, 2020
- Recommend at October 14th meeting what document type the UFLS Plan should take. Let the UFLSWG make the final decision at their October 29th meeting.
  - Assigned To: StS
  - Due Date: October 14, 2020
- Develop a survey to send to StS and SWG asking them to prioritize the studies listed in the Study Assessment Proposals Consolidation Excel workbook, and within each study



to prioritize the key reliability questions. A section will be added to the survey to allow additional comments on proposed assessments.

- Assigned To: WECC Staff
- Due Date: October 14, 2020
- Reach out to EDTF chair and ask if anything needs to be added to the StS work plan.
  - Assigned To: Peter Mackin
  - Due Date: October 14, 2020

**12. Upcoming Meetings**

October 14, 2020.....Webinar

**13. Adjourn**

Mr. Mackin adjourned the meeting without objection at 12:04 p.m.



## Exhibit A: Attendance List

### Members in Attendance

Ron Calvert..... Utility System Efficiencies, Inc.  
Thomas Carr..... Western Interstate Energy Board  
Dennis Chesnakov.....Public Utility District No. 2 of Grant County  
Steve Eckles..... El Paso Electric Company  
Jonathon Flores..... Los Angeles Department of Water and Power  
David Franklin..... Southern California Edison Company  
Alex Fratkin..... NV Energy  
Chris Gilden..... Tri-State Generation and Transmission—Reliability  
Fred Heutte..... NW Energy Coalition  
Stan Holland.....WECC  
Bill Hosie..... PSI Power System Innovation Corp.  
Robert Jackson.....Burns & McDonnell  
Lesley Kayser-Sprouse..... Hetch Hetchy Water and Power  
May Le.....Public Utility District No. 2 of Grant County  
David Le.....California Independent System Operator  
Todd Lichtas..... Tucson Electric Power  
Peter Mackin..... GridBright, Inc.  
Dipendra Rai..... British Columbia Hydro and Power Authority  
Karen Reedy.....Public Service Company of New Mexico  
Faranak Sarbaz..... Los Angeles Department of Water and Power  
Erik Schellenberg.....Idaho Power Company  
Rikin Shah.....PacifiCorp  
Berhanu Tesema.....Bonneville Power Administration—Transmission  
Chifong Thomas..... Smart Wires Inc.  
Dennis Yegorov..... PacifiCorp  
Janice Zewe..... Sacramento Municipal Utility District



**Members not in Attendance**

Dave Angell.....Northwest Power Pool Corporation  
Waseem Arif.....FortisBC, Inc.  
Eric Bahr.....NorthWestern Energy  
Aseem Bhatia.....California Department of Water Resources  
Ben Brownlee .....Energy Strategies  
Robert Burner.....Duke Energy  
Shawn Carlson .....Basin Electric Power Cooperative  
David Cathcart.....Bonneville Power Administration—Transmission  
Desmond Chan .....Seattle City Light  
Ken Che.....Public Utility District No. 1 of Snohomish County  
Tom Christensen.....Basin Electric Power Cooperative  
Jonathan Cichosz .....Portland General Electric Company  
Patrick Corrigan.....Public Service Company of Colorado (Xcel Energy)  
Tuan Dang .....Puget Sound Energy, Inc.  
Therence DeCorse.....Tucson Electric Power  
Thomas Duane .....Public Service Company of New Mexico  
Thomas Flynn.....California Energy Commission  
Larry Furumasu .....ColumbiaGrid  
Jennifer Galaway .....Portland General Electric Company  
William Gibson .....Hetch Hetchy Water and Power  
Laurie Hammack .....Seattle City Light  
Jeff Hanson .....Colorado Springs Utilities  
Kody Heppner .....Turlock Irrigation District  
Brendan Kelly.....Smart Wires Inc.  
John Liang.....Public Utility District No. 1 of Snohomish County  
Chelsea Loomis.....NorthWestern Energy  
Richard Maguire.....Avista Corporation



Daniel McGuire.....Salt River Project  
Pete Mensonides..... Turlock Irrigation District  
Patrick MontPlaisir..... Western Area Power Administration  
Amir Motamedi ..... Alberta Electric System Operator  
Valeriy Jr. Oleshko..... Western Area Power Administration  
Mark Pigman..... Tacoma Power  
Eepsita Priye..... Puget Sound Energy, Inc.  
Gerardo Pulido..... El Paso Electric Company  
Ebrahim Rahimi..... California Independent System Operator  
Daniel Ramirez..... Energy Strategies  
Masoud Shafa..... California Department of Water Resources  
Kavita Shenoj ..... Siemens Energy, Inc.  
Amy Sopinka..... British Columbia Ministry of Energy and Mines  
April Spacek ..... Avista Corporation  
Jan Strack ..... San Diego Gas and Electric  
Eric Tang..... Salt River Project  
Angela Tanghetti ..... California Energy Commission  
Khanh Thai ..... Tacoma Power  
Patrick Truong ..... Sacramento Municipal Utility District  
Edwin Tso..... Metropolitan Water District of Southern California  
Yu (David) Wang..... San Diego Gas and Electric  
Ryan Watts..... NV Energy  
Curtis Westhoff..... Idaho Power Company  
Di Xiao..... Southern California Edison Company  
Xiaofei (Sophie) Xu..... Pacific Gas and Electric Company  
Jonathan Young ..... ColumbiaGrid  
Kevin Zhang..... British Columbia Hydro and Power Authority  
Wenjuan (Wendy) Zhang..... Pacific Gas and Electric Company



**Others in Attendance**

Philip Augustin.....Salt River Project  
Mike Bailey .....WECC  
Hassan Baklou..... San Diego Gas and Electric  
Jyotsna Chatrati ..... NV Energy  
Tyler Cooper..... Black Hills Corporation  
Enoch Davies.....WECC  
Camille Duncan .....WECC  
Donna Enriquez ..... El Paso Electric  
Gerald Harris..... Quantum Planning Group  
Mensur Haskovic..... Western Area Power Administration  
Jon Jensen.....WECC  
Saad Malik .....WECC  
Richard Marrs ..... Quantum Planning Group  
Amy Mignella ..... Amy T. Mignella, Esq.  
Nima Miri ..... Seattle City Light  
Rafael Molano .....Bonneville Power Administration—Transmission  
Matthew Munoz ..... Los Angeles Department of Water and Power  
Jiya Shoaib .....British Columbia Ministry of Energy and Mines  
Dick Simons.....WECC  
Doug Tucker.....WECC  
Byron Woertz .....WECC

