

Memorandum

To: ISO Board of Governors
From: Neil Millar, Vice President of Infrastructure and Operations Planning
Date: July 12, 2023
Re: Transmission Maintenance Coordination Committee update

This memorandum does not require Board action.

EXECUTIVE SUMMARY

The Transmission Maintenance Coordination Committee (TMCC) held teleconference meetings on January 19, 2023 and March 16, 2023, and an in-person meeting on April 20, 2023. The following were the main topics discussed:

January 19, 2023

- Substation inspection and maintenance practices;
- Substation and transmission line insulator cleaning practices.

March 16, 2023

- Nominate and confirm TMCC members for four open positions.

April 20, 2023

- Substation inspection and maintenance practices;
- Transmission line inspection and maintenance practices.

The next regular scheduled TMCC meeting is scheduled for October 19, 2023 at the ISO headquarters.

BACKGROUND

The TMCC is an advisory committee to ISO Management. TMCC membership includes one member representing each participating transmission owner (PTO) with transmission

facilities subject to the ISO transmission maintenance standards, two members representing organizations representing labor interests, five members representing other organizations, and the ISO Vice President of Infrastructure and Operations Planning, or his or her designee, who serves as the Chair of the TMCC.

Members of the TMCC perform duties specified in Appendix C to the transmission control agreement focused on maintaining the availability of transmission facilities, including:

- Conveying transmission facility maintenance-related information to the ISO vice president of Infrastructure and Operations Planning;
- Seeking input from participating transmission owners and interested stakeholders regarding the transmission maintenance standards; and
- Reviewing any proposed changes to the transmission maintenance standards submitted by the ISO, a participating transmission owner, or any interested stakeholder; and recommending revisions to the standards for submittal to the ISO Board of Governors for decision.

Summary of January 19, 2023 teleconference

Substation inspection and maintenance practices

Justin Flores, Pacific Gas and Electric's (PG&E) Principal of Substation Maintenance Strategy, presented an overview of PG&E's preventative and corrective transmission substation maintenance practices. Mr. Flores covered routine, vegetation, and supplemental wildfire inspection types and frequencies, and discussed when PG&E utilizes infrared, drone, and ground inspection methods. Mr. Flores also discussed PG&E's approach to maintain wildfire defensible space around transmission facilities.

Joel Karzan, Southern California Edison's (SCE) Senior Manager of Compliance Integration, presented an overview of SCE's circuit breaker and transformer inspection and maintenance programs and the various methods and tools SCE uses to conduct these inspections.

Substation and transmission line Insulator cleaning practices

TMCC members held an informal round table discussion on insulator cleaning practices, programs and procedures. Topics discussed included use of automated sensors and weather stations to identify or predict when insulators may be contaminated and need cleaning, as well as insulator washing practices.

Summary of March 16, 2022 teleconference

The purpose of the conference call was for TMCC members to review nominations for four positions whose current members' terms were expiring on March 31, 2023. The committee

voted on the nominees and the following were appointed to the committee to serve until March 31, 2026:

- Renewal – Ethan Stonecipher, IBEW 1245, Local Union Business Representative;
- Renewal – Maria Ly, PG&E, Director of Transmission and Substation Asset Management;
- Renewal – Jim Useldinger, Gridliance, Senior Manager Operations for Gridliance;
- New Member – Bryan Pena, California Public Utilities Commission, Senior Utility Engineer

Summary of April 21, 2022 meeting

Substation inspection and maintenance practices

Christian Henderson, San Diego Gas and Electric's (SDGE) Substation Operations and Engineering Manager, presented an overview of SDGE's substation maintenance practices. Mr. Henderson covered routine, infrared and substation equipment inspection tasks and frequencies.

Justin Flores presented an overview of PG&E's current online substation monitoring activities including station infrared thermography, transformer dissolved gas, and station battery system monitoring pilot programs.

Transmission line inspection and maintenance practices

Monica Curry, SDGE's Construction Operations Manager, provided an update on SDGE's transmission line maintenance and inspection program.