

Memorandum

To: ISO Board of Governors
From: Keith Casey, Vice President of Market and Infrastructure Development
Date: December 11, 2013
Re: Transmission Maintenance Coordination Committee Update

This memorandum does not require Board action.

EXECUTIVE SUMMARY

The Transmission Maintenance Coordination Committee (TMCC) met on July 18 and October 17, 2013 and discussed the following topics:

1. Recent experiences involving North American Electric Reliability Corporation (NERC) Reliability Standards;
2. California Public Utilities Commission General Order 174 (Rules for Electric Utility Substations) and General Order 165 (Inspection Requirements for Electric Distribution and Transmission Facilities);
3. California and Federal Agency SF₆ regulation requirements;
4. Critical Infrastructure Protection (CIP) Standards
5. Major grid events;
6. Availability metric modifications; and
7. TMCC member replacement.

The next regular scheduled TMCC meeting will be held on January 16, 2014 at the ISO Folsom Headquarters. Minutes are posted to the ISO website meeting pages at: <http://www.caiso.com/Documents/Transmission%20Maintenance%20Coordination%20Committee%20meetings>

BACKGROUND

The TMCC is an advisory committee to ISO Management. TMCC membership includes one member representing each participating transmission owner 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 responsible for transmission maintenance, 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, including:

- Convey transmission facility maintenance related information to the ISO vice president responsible for transmission maintenance;
- Seek input from other participating transmission owners and interested stakeholders regarding the ISO transmission maintenance standards; and
- Review any proposed changes to the ISO transmission maintenance standards submitted by the ISO, a participating transmission owner, or any interested stakeholder, and recommend revisions to the ISO transmission maintenance standards for submittal to the Board for approval.

SUMMARY OF TMCC RECENT ACTIVITIES

Recent experiences involving North American Electric Reliability Corporation (NERC) Reliability Standards

The TMCC discussed NERC Reliability Standards PRC-018 (Disturbance Monitoring Equipment Installation and Data Reporting) and PRC-002 (Disturbance Monitoring and Data Reporting Requirements). PRC-018 is currently in the open ballot status.

CPUC General Order 165 (Inspection Requirement for Electric Distribution and Transmission Facilities) and General Order 174 (Rules for Electric Utility Substations)

CPUC Senior Utilities Engineer, Benjamin Brinkman, provided an update and stated the audits on investor owned utilities in regards to both General Orders 165 and 174 have been completed for 2013. In 2014 the CPUC will perform similar audits on a number of municipal utilities.

California and federal agency SF₆ regulation requirements

Los Angeles Department of Water and Power Superintendent of Electrical Station Maintenance Support Services, Dave Haerle, provided a quick update on the latest California Air Resources Board (CARB) and US Environmental Protection Agency efforts regarding SF₆ regulations.

The links for the California Air Resources Board and the United States Environmental Protection Agency efforts and associated reporting details are located at: <http://www.arb.ca.gov/cc/sf6elec/sf6elec.htm> and <http://www.epa.gov/ghgreporting/reporters/subpart/dd.html>

Critical Infrastructure Protection (CIP) Standards

Southern California Edison Senior Project Manager in Substation Regulatory Compliance, Robert Preston Lloyd, led a discussion that addressed changes that can be expected in the next version of NERC CIP Standards, Version 5. The NERC CIP Standards address the security of cyber assets essential to the reliable operation of the electric grid. The NERC CIP standards cover the security of electronic perimeters and the protection of critical cyber assets as well as personnel and training, security management and disaster recovery planning.

Major grid events

Mr. Haerle indicated LADWP had a transformer fire in Port of Los Angeles caused by inappropriate use of steel fish tapes. Pacific Gas & Electric Company Substation and Transmission Maintenance Director, Tom Wright reported PG&E had two insulator flashovers at Diablo Canyon. Mr. Wright also reported that the Metcalf shooting was still under investigation and the local, state, and federal authorities were still involved. PacifiCorp Director of Asset Management, Jack Vranish, indicated they are experiencing moss growth on insulators.

Availability metric modifications

Over the last year, in an effort to reduce workload, a subcommittee of the TMCC has been working to develop a more streamlined method to compile outage data used in the annual availability performance monitoring system. The availability performance monitoring system is a key element of the ISO transmission maintenance standards. Based on the subcommittee's recommendation, the ISO prepared and disbursed preliminary results to PG&E, SCE, & SDG&E that reflected the new streamlined process. Early indications show the new streamlined method will result in significant (greater than 50%) time and resource savings. A subcommittee meeting is planned for December to review the preliminary results and to assure that the proposed streamlined method provides results that are equivalent or superior to the current method. The subcommittee will also determine what changes, if any, will be needed to existing maintenance procedures to reflect the new streamlined approach. Any revised maintenance procedures will be presented to the TMCC for decision in early 2014.

TMCC member replacement

Trans Bay Cable Senior Engineer, Steven Powell, was nominated by TBC to replace their current voting member, James Alligan, on the TMCC for the remainder of his two-year term that expires on March 31, 2014. The TMCC voted to accept this nomination and Mr. Powell officially became the TBC voting representative on July 18, 2013.

Western Area Power Administration Engineer, David Hahn, was nominated by Western to replace their current voting member, Steve Tuggle, on the TMCC for the remainder of his three-year term that expires on March 31, 2016. The TMCC voted to accept this nomination and Mr. Hahn thus officially became Western's voting representative on October 17, 2013.

On November 4, 2013, the ISO issued a market notice announcing a TMCC candidate search to fill four open TMCC member positions whose three-year terms will begin on April 1, 2014. The TMCC charter requires these open positions to be filled as follows:

- Three by Participating Transmission Owners
- One by a labor organization

The TMCC plans to vote on the final candidates at its January 16, 2014 TMCC meeting.