

Memorandum

To: ISO Board of Governors
From: Keith Casey, Vice President of Market and Infrastructure Development
Date: March 13, 2013
Re: Transmission Maintenance Coordination Committee Update

This memorandum does not require Board action.

EXECUTIVE SUMMARY

The Transmission Maintenance Coordination Committee (TMCC) met on January 17 and March 5, 2013 and discussed the following topics:

1. Membership;
2. Electric Power Research Institute discussion on Corona Detection Equipment;
3. Recent experiences involving North American Electric Reliability Corporation Reliability Standards;
4. CPUC General Order 174 (Rules for Electric Utility Substations);
5. CPUC General Order 165 (Inspection Requirements for Electric Distribution and Transmission Facilities);
6. California and Federal Agency SF₆ regulation requirements;
7. Asset Management Programs; and
8. Grid events and analysis.

The next regular scheduled TMCC meeting will be held on April 18, 2013 at the ISO's Folsom Headquarters. Minutes are posted to the 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

Membership

TMCC Chair, Stephen Ruty, facilitated the TMCC approval of eight members whose memberships were either newly added, scheduled to expire on March 31, 2013, or needed replacement before the expiration date occurred. Final votes were taken on March 5 for each individual addition/renewal/replacement. Five individuals were approved for three year terms, two were approved for one year terms, and one was approved to complete the final two years of a three year term. All eight begin their new terms on April 1, 2013. With this vote, the TMCC voting membership, inclusive of the ISO appointed chair of the TMCC, is currently at fourteen. The eight newly elected members are:

Voting Member	Organization	Term	Interest Group
Michael Palusso	Southern California Edison	1 year renewal	PTO
Cory Mitsui	San Diego Gas and Electric	Replacement to complete remaining 2 years of 3 year term	PTO
Steve Tuggle	Western Area Sierra Nevada	3 year renewal	PTO
James Andresen	Valley Electric Association	3 year addition	PTO
Landis Marttila	International Brotherhood of Electrical Workers	1 year renewal	Labor Union

	Local 1245		
Jamie Patterson	California Energy Commission	3 year renewal	Other
Ryan Yamamoto	California Public Utility Commission	3 year renewal	Other
Jack Vranish	PacifiCorp	3 year addition	Other

The remaining TMCC membership includes:

Voting Member	Organization	Remaining Term	Interest Group
Tom Wright	Pacific Gas and Electric	1 year	PTO
James Alligan	Trans Bay Cable (TBC)	1 year	PTO
Tibor Foki	International Brotherhood of Electrical Workers Local 47	2 years	Labor Union
David Haerle	Los Angeles Department Water & Power	2 years	Other
Jorge Somoano	Burbank Water & Power	2 years	Other

EPRI Discussion on Corona Detection Equipment

Electric Power Research Institute’s (EPRI) Overhead Transmission Program Manager, Fabio Bologna, presented, via a web-conference, corona detection equipment information and discussed challenges associated with ultra violet daytime discharge inspection technology and how EPRI is addressing these challenges. EPRI’s goal is to provide sound technical information and tools to enable utilities to effectively apply Daytime UV Discharge Inspection Technology and reach a correct understanding or diagnosis of visual images that will help reduce unnecessary intervention or equipment failure thereby saving money.

Recent experiences involving North American Electric Reliability Corporation Reliability Standards

SCE Manager of Transmission/Substation Maintenance and Inspection, Mike Palusso, stated that PRC-005-2 and the Bulk Electric System definition were approved by the NERC

Board of Trustees and sent to FERC for their approval. He indicated PRC-005-2 will be requiring utilities to submit a program within one year to be phased in over four to twelve years. The most current status of PRC-005-2 can be found at:

http://www.nerc.com/filez/standards/Protection_System_Maintenance_Project_2007-17.html.

Trans Bay Cable, SCE, SDG&E, PG&E and the ISO shared their recent experiences with WECC audits.

CPUC General Order 174 (Rules for Electric Utility Substations)

CPUC Utilities Engineer, Ryan Yamamoto, provided a status update on the plans for implementing General Order 174 for substation inspection. This order can be found at: <http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M031/K880/31880041.PDF>

The California Public Safety Division of the CPUC has already started implementation of the order and has scheduled the first audit in February 2013 with SDG&E. After the first year of audits is completed, the CPUC intends on following up with annual first quarter lessons learned workshops. These workshops will be hosted by the three major investor owned utilities (PG&E, SCE, and SDG&E) starting in January 2014 and finishing in 2016. A report summarizing the results of this process is scheduled for completion by the CPUC on July 1, 2016.

SDG&E indicated the requests submitted to them for this audit were high level and involved approximately 20 stations.

Valley Electric Association indicated they do not have similar substation audits by the Nevada Public Utilities Commission.

CPUC General Order 165 (Inspection Requirement for Electric Distribution and Transmission Facilities)

Mr. Yamamoto reported that the California Public Safety Division is scheduled to conduct two remaining audits under General Order 165 before the end of February 2013. He also indicated there would be an overlap of auditing non-ISO and ISO facilities.

California and Federal Agency SF₆ Regulation Requirements

TMCC members from PG&E and SCE indicated that they, along with LADWP, were currently engaged in discussions regarding the reporting of SF₆ data in 2013.

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>

Discussion on Asset Management Programs

Although not in attendance, Western provided the TMCC for review a white paper describing Western's asset management improvement project. This paper will be discussed at the April 18, 2013 TMCC meeting when Western is available to participate.

Briefing on Grid Events and Analysis

No events were reported.