

Memorandum

To: ISO Board of Governors
From: Armando J. Perez, Vice President of Grid Planning and Infrastructure Development
Date: March 18, 2008
Re: *Transmission Maintenance Coordination Committee Activity Update*

This memorandum is for Board information only.

EXECUTIVE SUMMARY

This memo is intended to keep the Board informed of recent activities of the Transmission Maintenance Coordination Committee (TMCC). The TMCC met on January 17, 2008. The following significant topics were addressed:

- TMCC candidate search
- Congestion Revenue Rights (CRR)
- Best Practices: San Diego Gas & Electric (SDGE) Steel pole replacement program
- Best Practices: CAISO Mapping System
- Recent TMCC experiences with North American Electric Reliability Corporation reliability standards.
- CAISO Maintenance Procedure 2 revision
- Critical Infrastructure Violations
- The Institute of Electrical and Electronics Engineers, Inc. (IEEE) Maintenance/Inspection Guide
- Major Grid Events - Bonneville Power Administration (BPA) on 12/3/07 and Pacific Gas & Electric (PG&E) on 1/4/08

The next meeting of the TMCC is scheduled for April 17, 2008 and official minutes of the January 17, 2008 TMCC meeting will be approved at that time.

BACKGROUND

TMCC Candidate Search: Participants of the TMCC meeting were notified that the CAISO is seeking candidates to fill five two-year terms and two one-year remaining terms on the TMCC for seven of the eleven external voting members whose two-year terms expire in 2008 and one-year remaining terms expire in 2009. The organizations these voting memberships currently represent were invited to submit nominations. A parallel search for additional candidates was sent out with a Market Notice on January 29, 2008.

Congestion Revenue Rights (CRRs): The TMCC was provided with the latest draft language covering outage scheduling to support the monthly release of CRRs as found in section 4.2.1.1 of the November 15, 2007 version of the Business Practice Manual (BPM) for Outage Management (<http://www.caiso.com/1c95/1c95dbc25dbf0.pdf>). Further discussion led to the following action item:

- Gregg Lemler (PG&E) and Jim McHan (CAISO) to develop revised or additional language for the Outage Management BPM to address a post assessment of the BPM process impact on reliability. This language will be submitted to the BPM team for consideration.

Best Practices: SDGE Steel Pole Replacement Program: Ali Yari (SDGE) provided a presentation on their program to replace wooden poles with steel poles in fire prone areas.

Best Practices: CAISO Mapping System: Steven Gillespie (CAISO) provided the Committee with a presentation of the mapping system currently used by the CAISO to locate fires relative to grid facilities inclusive of weather conditions.

Recent TMCC experiences with NERC Reliability Standards Discussion: James McHan (CAISO) led a discussion on the NERC Reliability Standards. CAISO sent a link of the North American Electric Reliability Corporation (NERC) Violation Severity Guidelines to the TMCC voting members prior to this meeting.

Frank Johnson (SDGE) stated SDGE had completed a NERC related readiness review in 2006 and had completed the self-certification process addressed in the NERC reliability standards.

Jim Jackson (BPA) indicated BPA would be undergoing a full audit with NERC beginning January 21, 2008.

Maintenance Procedure 2 Revision: Tom Halford (CAISO) led a discussion on using potentially more appropriate forced outage data to analyze Participating Transmission Owner's (PTOs) annual transmission line availability performance by revising Maintenance Procedure 2 (Outage Data Format). This procedure is used by the Participating Transmission Owners (PTOs) to prepare the annual Transmission Line Availability Performance Reports required by the ISO Transmission Maintenance Standards. It is a guideline that structures the format for the capture of detailed and summary transmission line forced outage data used to develop control charts. Control charts display the threshold limits used for transmission line availability performance evaluation by the Participating Transmission Owners. For those PTOs having a minimum of ten years of forced outage data while under ISO Operational Control the revision would allow the use of forced outage data captured only while under ISO Operational Control. The current practice includes forced outage data captured prior to and after the PTO was under ISO Operational Control (currently as many as 20 years). The TMCC requested the CAISO to develop control charts that display the availability performance threshold limits for each PTO using both scenarios (and any other combinations of forced outage data that could be beneficial in the analysis) by the April 2008 TMCC meeting. These control charts will be reviewed by the TMCC to help determine which combination of forced outage data is most appropriate and should be used in future control chart development.

Critical Infrastructure Violations: Mike Palusso (SCE) provided a briefing on the information that is presently on the internet under the Wikipedia website that might be violating critical infrastructure rules. The Federal Bureau of Investigation (FBI) responded to SCE concerns saying they will address this issue but because of limited resources their response time will be slowed. SCE indicated they would provide an update at the April 2008 TMCC meeting.

Jim Jackson (BPA) indicated BPA's cyber-security group was also making an effort to try and get this information removed (location of facilities and associated power flow capacity) from Wikipedia.

IEEE Maintenance/Inspection Guide: James McHan (CAISO) indicated the guide would be a maintenance/inspection program reference document accessible from the IEEE library when finished. The next IEEE meeting on this guide is scheduled to be at the end of January 2008 in Las Vegas.

BPA Outages (12/3/07) & PG&E Area Outages (1/4/08): BPA & PG&E experienced heavy storms respectively on December 3, 2007 and January 4, 2008. BPA had a large area of customers without power for more than 48 hours due to limited access to the troubled areas. PG&E had 2.5 million customers impacted (due mostly to off Rights-of-Way (ROW) trees) with 90% of these customers returned to service within 48 hours. The TMCC will endeavor to develop a vegetation management maintenance practice for off ROW trees.

*Details of the above topics are available after the TMCC approves the Official minutes for the January 17, 2008 TMCC meeting. Official minutes for TMCC meetings appear at this link:
<http://www.caiso.com/pubinfo/BOG/documents/grid/mcc/archives.html>*