

TRANSMISSION MAINTENANCE COORDINATION COMMITTEE (TMCC) MINUTES

January 18, 2018

Meeting from the ISO Headquarters Folsom, California

Steve Ruty, Acting Chairperson of the Transmission Maintenance Coordination Committee (TMCC), called the meeting to order at approximately 9:30 a.m.

ATTENDANCE

The following TMCC members attended:

James Alligan (NextEra Energy Transmission)
J. Bret Ball (San Diego Gas & Electric (SDG&E))
Tibor Foki (International Brotherhood of Electrical Workers Local Union 47 (IBEW 47))
David Hahn (Western Area Power Administration (WAPA))
Landis Marttila (International Brotherhood of Electrical Workers Local Union 1245 (IBEW 1245))
Steve Powell (Trans Bay Cable (TBC))
Steve Ruty (California Independent System Operator Corporation (CAISO)) – Acting Chairperson
Jim Useldinger (GridLiance West Transco (GWT))
Jack Vranish (PacifiCorp)
Tom Wright Jr. (Pacific Gas & Electric (PG&E))

The following TMCC members were not in attendance:

James Andresen (Valley Electric Association (VEA))
David Haerle (Los Angeles Department of Water & Power (LADWP))
Roni Mejia (Southern California Edison (SCE))
Jamie Patterson (California Energy Commission (CEC))
Ryan Yamamoto (California Public Utilities Commission (CPUC))

The following members of the public were in attendance:

Lou Fonte (CAISO)
Shaun Gahagan (SDG&E)
Andrew Gazdziak (SDG&E)
Valentina Guzman-Ridad (Silicon Valley Power)
Chris Hillman (CAISO)
Michael Keate (Silicon Valley Power)
Jason Le (LADWP)
Charles Mee (CPUC)
Perry Servedio (CAISO)
Sam Stonerock (SCE)
Scott Vaughan (CAISO)

The following agenda items were addressed:

Opening Comments:

Tibor Foki (IBEW 47) began a discussion on current industry news. The discussion focused in the following points;

- Fire and storm restoration
- Automatic reclosing versus providing service
- Community Choice Aggregation
- Tariffs on solar panels sourced from China

Decision on 10/17/17 General Session Minutes:

The October 17, 2017 meeting minutes were reviewed and approved with no objections noted.

NextEra presentation on Hurricane Preparation & Irma Response:

James Alligan, of NextEra, presented on Florida Light & Power's response to Hurricane Irma and the benefits realized from their hurricane preparedness efforts. James reported that Florida Light & Power (FL&P) invested over \$3 billion in resiliency since the hurricanes of '04 and '05. FL&P hardened or undergrounded 40% of their lines, upgraded their substations with storm surge and flood mitigation and clear 15,000 miles of vegetation each year. A smarter and more modern grid helps to assess damage and gauge restoration efforts.

James explained that hurricane Irma was roughly the size of Texas and was slow moving. FL&P estimates that recovery from Irma will cost \$1.3 billion. The restoration effort was the largest workforce ever assembled by FL&P.

California ISO presentation on CRR Auction Efficiency Analysis:

Perry Servedio, of the California ISO, presented on the issues outlined in the CRR Auction Efficiency Analysis report. Perry explained the purpose and use of congestion revenue rights and the impact of not accurately modeling the system. He reviewed the CAISO tariff requirements for reporting planned outages and explained that the PTO were not consistently meeting the requirements. Perry provided a high level schedule the CAISO is following in making revisions to the tariff.

TMCC Membership Nominations:

Chris Hillman, California ISO Lead Grid Asset Engineer, informed the group that the membership terms of 4 current TMCC members are set to expire on March 31, 2018. Chris stated that the CAISO will be posting a market notice soliciting nominations and will be setting up a conference call in mid-March to review and approve nominees.

ISO Transmission Maintenance Standards:

Chris Hillman, California ISO Lead Grid Asset Engineer, provided an update on the status of the proposed revisions to Procedure 2 – Outage Data File Format. Chris explained that the CAISO is investigating the impacts of the revisions to the Outage Management System (WebOMS) as the application pulls its outage cause codes from the primary cause list in Procedure 2.

NERC Reliability Standards and compliance processing:

The control center CIP standard is currently in draft.

Most PTOs are scheduled for NERC / WECC audits over the course of 2018.

Briefing on major grid events:

Attendees had a general discussion on the recent fires in Southern California and the fires in Sonoma and Napa counties. The impacts of the closure of Diablo Canyon generating station was also discussed.

Industry Groups and Conferences:

Attendees shared the industry associations and conferences they attend and find value at;

- Doble Conference
- IEEE PES T&D
- IEEE ESMO
- TDMM
- Western Underground
- EPRI
- CEATI
- EDM International
- NATF

Open discussion items:

The CARB is considering implementing a ban on new equipment installation that utilize SF6 as an insulating gas. PG&E commented that they are looking at no longer purchasing equipment containing SF6 after 2030.

New Business Issues and Future Agenda Items:

Acting TMCC Chairperson Steve Ruddy asked the members to work with the CAISO over the next few months to decide which topics they would like to discuss at the next TMCC meeting. Suggestions provided at the meeting included an update on the CRR auction analysis, a presentation by VEA on breaker failures and a presentation by TBC on breaker inspections.

TMCC MEMBER ACTION ITEMS

- ISO will draft the minutes for this meeting and post as a document for the April 19, 2018 TMCC meeting;
- ISO will post the minutes approved for the October 17, 2017 TMCC meeting on the ISO website;

The meeting was adjourned with no objections noted.