

# **TRANSMISSION MAINTENANCE COORDINATION COMMITTEE (TMCC) MINUTES**

## **April 19, 2018**

### **Meeting from the ISO Headquarters Folsom, California**

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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 Andresen (Valley Electric Association (VEA))  
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))  
Roni Mejia (Southern California Edison (SCE))  
Jamie Patterson (California Energy Commission (CEC))  
Steve Powell (Trans Bay Cable (TBC))  
Steve Ruty (California Independent System Operator Corporation (CAISO)) – Acting Chairperson  
Jim Useldinger (GridLiance West Transco (GWT))

##### ***The following TMCC members were not in attendance:***

James Alligan (NextEra Energy Transmission)  
Charles Mee (California Public Utilities Commission (CPUC))  
Jack Vranish (PacifiCorp)  
Tom Wright Jr. (Pacific Gas & Electric (PG&E))

##### ***The following members of the public were in attendance:***

Lou Fonte (CAISO)  
Chris Hillman (CAISO)  
Michael Blunt (TBC)  
Jason Le (LADWP)  
Perry Servedio (CAISO)  
Trish Fabris (PG&E)

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;

- Closing of nuclear power plants
- Drone inspections
- Rooftop solar
- Duke Energy cyber attack
- CPUC Map of high risk fire zones

***Decision on 1/18/18 General Session Minutes:***

The January 18, 2018 meeting minutes were reviewed and approved with no objections noted.

***Decision on 3/13/18 Conference Call Minutes:***

The March 13, 2018 meeting minutes were reviewed and approved with no objections noted.

***Valley Electric Association presentation on Vista Substation Breaker Fault:***

James Andresen, of VEA, presented on Valley Electric Association's findings from a circuit breaker fault they experienced at their Vista Substation. James explained that the line breaker at Vista Station had relayed and locked out and after the line was patrolled and no cause was found the breaker was returned to service. Subsequent planned maintenance on the breaker uncovered that there was a burn hole on the throat shield, a burn mark on the inside of the bushing and evidence of arcing on the bushing thru rod. The breaker manufacturer commented that this was a very rare mode of failure.

***Trans Bay Cable presentation on Circuit Breaker Radiography:***

Michael Blunt, of Trans Bay Cable, presented on TBC's experience in supplementing traditional breaker maintenance with radiography inspection. Michael explained that TBC has two SF6 Dead Tank Circuit Breakers that require maintenance on a 6 year cycle as per the manufacturer's recommendations. The breakers seldom operate and may not require the intrusive maintenance specified by the manufacturer. TBC sees reduced maintenance costs and less downtime resulting from radiography inspections but as the manufacture doesn't offer support or specifications they only use radiography inspections to supplement their regular maintenance program.

***California ISO update on CRR Auction Efficiency Analysis:***

Perry Servedio, of the California ISO, presented on the actions being taken by the CASIO in addressing the CRR Auction Efficiency. Perry explained the scope of the 4 tracks (Track 0, Track 1A, Track 1B and Track 2) and their target dates for completion. He reviewed the proposed requirements for the annual reporting of planned outages and explained that the CAISO also proposes to refine the reporting requirement to only include the types of outages that impact the CRR model.

**ISO Transmission Maintenance Standards:**

Chris Hillman, California ISO Lead Grid Asset Engineer, updated the members that the CAISO is in the process of revising the primary cause list in the Outage Management System (WebOMS) to include the proposed primary cause of Mylar balloons.

Chris then reviewed the proposed revisions to the Transmission Maintenance Standards Procedure 2 – Outage Data File Format and the revisions were unanimously approved. The ISO will post the revised procedure on the ISO website.

**NERC Reliability Standards and compliance processing:**

The CAISO stated that they filed their response to FERC's Resiliency Order.

**Briefing on major grid events:**

None.

**Open discussion items:**

Jamie Patterson, California Energy Commission Senior Electrical Engineer, informed the attendees that CEC research is now focused on the distribution system.

Acting TMCC Chairperson Steve Rutty informed the attendees that the CAISO generation interconnection request window recently closed and the CAISO received over 130 requests to interconnect from developers. Steve stated that many were battery storage projects and one project was for offshore wind.

Chris Hillman, California ISO Lead Grid Asset Engineer, reminded the members that there is one open position on the TMCC. Chris stated that the CAISO is expecting a nomination from LADWP and will be setting up a conference call in the future to review and approve the nominee.

**New Business Issues and Future Agenda Items:**

Acting TMCC Chairperson Steve Rutty informed the members that Citizens Sycamore-Penasquitos Transmission LLC will be a new PTO joining this year.

Steve Rutty 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 CAISO's progress in becoming a Reliability Coordinator.

Steve Rutty also asked the members if there were any business issues requiring the TMCC reconvene at the regularly scheduled meeting in July. There were none and membership agreed to forgo the July meeting and meet again in October.

**TMCC MEMBER ACTION ITEMS**

- ISO will draft the minutes for this meeting and post as a document for the October 18, 2018 TMCC meeting;
- ISO will post the minutes approved for the January 18, 2018 TMCC meeting on the ISO website;

The meeting was adjourned with no objections noted.