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TRANSMISSION MAINTENANCE COORDINATION COMMITTEE (TMCC) MINUTES

October 17, 2017

Meeting from the ISO Headquarters

Folsom, California

Steve Rutty, 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:

Tibor Foki (International Brotherhood of Electrical Workers Local Union 47 (IBEW 47))

Steve Rutty (California Independent System Operator Corporation (CAISO)) – Acting Chairperson

Tom Wright Jr. (Pacific Gas & Electric (PG&E))

James Alligan (NextEra Energy Transmission)

Jamie Patterson (California Energy Commission (CEC))

Steve Powell (Trans Bay Cable (TBC))

Landis Marttila (International Brotherhood of Electrical Workers Local Union 1245 (IBEW 1245))

Roni Mejia (Southern California Edison (SCE))

James Andresen (Valley Electric Association (VEA)

David Hahn (Western Area Power Administration (WAPA))

J. Bret Ball (San Diego Gas & Electric (SDG&E))

Jim Useldinger (GridLiance West Transco (GWT))

Jack Vranish (PacifiCorp)

The following TMCC members were not in attendance:

David Haerle (Los Angeles Department of Water & Power (LADWP)) Ryan Yamamoto (California Public Utilities Commission (CPUC))

The following members of the public were in attendance:

Chris Hillman (CAISO)

Scott Vaughan (CAISO)

Lou Fonte (CAISO)

Andrew Gazdziak (SDG&E)

Shaun Gahagan (SDG&E)

Valentina Guzman-Ridad (Silicon Valley Power)

Jason Murray (GWT)

Vince Steinman (PG&E)

Sam Stonerock (SCE)

Michael Blunt (TBC)



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Joel Karzen (SCE) Jason Le (LADWP)

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;

- Traditional generation closing
- Hurricane Irma
- Nuclear waste storage

Decision on 4/20/17 General Session Minutes:

The April 20, 2017 meeting minutes were reviewed and approved with no objections noted.

Decision on 7/20/17 Conference Call Minutes:

The July 20, 2017 meeting minutes were reviewed and approved with no objections noted.

Decision on 9/11/17 Conference Call Minutes:

The September 11, 2017 meeting minutes were reviewed and approved with no objections noted.

GridLiance West Transco presentation on Galloping Mitigation Measures:

Jason Murray, of GridLiance West Transco (GWT), presented on the issues they face on a galloping prone line in Oklahoma. GWT explained that they are piloting a newer technology called the AR Twister to control the amplitude of galloping. The AR Twister uses an offset weight to change the wind angle of attack during a galloping event.

Pacific Gas & Electric presentation on Transformer Failures:

Vince Steinman, of Pacific Gas & Electric, presented on their findings from the Bank 4 failure experienced at the Metcalf Substation in 2015. PG&E reported that the transformer failed catastrophically and that the main tank walls were distorted and physically breached in more than one location. The initiating point of failure was determined to be an internal flashover between the DETC and LTC tap leads.

Vince also shared that PG&E experienced a similar failure in 2009 on the Monta Vista Bank 3 transformer. Further investigation showed that the transformers are sister units built by the same



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manufacture in 2003. PG&E has 19 units by the same manufacture currently in service and are conducting oil diagnostic sampling every 30 days and completed baseline partial discharge testing.

ISO Transmission Maintenance Standards:

Chris Hillman, California ISO Lead Grid Asset Engineer, reviewed the proposed revisions to the following Transmission Maintenance Standards;

- Procedure 2 Outage Data File Format
- Procedure 5 Classifying Forced Outages
- Procedure 6 Supervisory Control and Data Acquisition (SCADA) Performance Criteria

The TMCC proposed to add a primary cause of Mylar balloons to the listing outlined in Procedure 2. Chris was to make the change to the draft final and circulate to the group in advance of a conference call.

The revisions to maintenance procedures 5 and 6 were unanimously approved.

Recent Experiences with NERC Reliability Standards and compliance processing:

None

Briefing on major grid events:

None

Open discussion items:

The CPUC is considering adopting the National Electric Safety Code in California. Currently California is the only state that has its own state code (GO 95) and reviews its code requirements whenever the NESC is revised.

California OSHA is scheduled to adopt the Federal OHSA standards without amendment.

The NYISO recently awarded its first FERC Order 1000 project; a 345kV transmission line and associated substations.

New Business Issues and Future Agenda Items:

Acting TMCC Chairperson 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.



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TMCC MEMBER ACTION ITEMS

- ISO will draft the minutes for this meeting and post as a document for the January 18, 2018 TMCC meeting;
- ISO will post the minutes approved for the April 20, 2017 TMCC meeting on the ISO website;

The meeting was adjourned with no objections noted.