

**IEEE/PES Transformers Committee**  
**WG C57.127- IEEE Guide for the Detection, Location and Interpretation of**  
**Sources of Acoustic Emissions from Electrical Discharges in Power Transformers**  
**and Power Reactors**

**Unapproved Meeting Minutes**  
**Louisville, KY, October 31 2017, Room: Marriott 1-3**

**Meeting Attendance**

The working group met at 11:00 AM. 78 persons were in the room and 15 members out of 23 were present. Quorum requirement was met. Complete attendance record is available in the AM System.

**Discussions**

The meeting started with the unanimous approval of the agenda (Thang Hochanh, seconded by Hemchandra Shertukde). The minutes from New Orleans meeting were also unanimously approved (motion by Hemchandra Shertukde, seconded by Thang Hochanh).

A patent was brought to our attention during the call for patent (Raja Kuppuswamy). The new information relates to the addition of the energy criterion in Annex B of the guide (informative). The patent number is: US7286968 B2 and is owned by Areva T&D (now GE). We understand that IEEE SA will analyse this. In case it conflicts, we will either drop this section or solve it by having GE providing the “letter of assurance for essential patents”.

The main discussion of the meeting was about a comment regarding the differentiation of the two main methods (all-acoustic and using electric trigger) and their respective level of detail. Although the guide already covers both methods, it was proposed that more insight regarding the mathematical determination of time of arrivals could be useful. It was mentioned that the main objective of this guide is to educate users on the principles of acoustics and to bring background information on the different techniques that exists on the market. The chair mentioned that details on the mathematical implementation of the different algorithms involved in these solutions is not considered as valuable information to be detailed in the guide, but could be included as a reference in the bibliography. Raja Kuppuswamy made a motion to include further information on the all acoustic technique (seconded by Dharam Vir). No members voted positively for the motion (9 members rejected the motion, 4 abstained). The motion failed.

We then had a motion to approve the current draft in order to initiate the sponsor ballot process after the Mandatory Editorial Coordination (Motion by Hemchandra Shertukde, seconded by Marco Tozzi). The motion was unanimously approved.

The group will meet again in Pittsburgh for the spring 2018 meeting.

**Adjournment**

The meeting was adjourned at 11:50 AM.

David Larochelle