IEEE/PES Transformers Committee
TF C57.127- Revision of IEEE Guide for the Detection, Location and Interpretation of Sources of Acoustic Emissions from Electrical Discharges

~~Unapproved~~ Approved Meeting Minutes
Vancouver, March 12th, 2024, Room: Balmoral (3)

Meeting Attendance

The working group met at 9:30 AM. 36 participants were in the room including 9 of the 20 members. Quorum was not met. Attendance list is shown at the end of the present minutes.

Discussions

After the call for patent and showing the copyright policy, it was announced that after a few questions, the PAR was approved in February. Our work from now on will be conducted under an official working group. The schedule has been updated accordingly but the committee website is still pending an update.

Our intention to allow short presentations was validated with the subcommittee. They are beneficial to the entire group to establish a common ground on the technology as well as to introduce new methods. Such presentations can be scheduled within the working group with the following recommendations:

- Presentations must be sent in advance to the WG officers.
- Commercial references must be removed from the presentation.

Requests for presentation can be sent to officers (Detlev Gross, Jack Harley, David Larochelle).

It was mentioned that the document does not need major modifications and will surely be republished before the expiration of our PAR in 2028. The following remarks were made by group:

1. Add more details on what conditions usually trigger an acoustic measurement, for example PD levels, DGA, monitoring etc. (Markus Soeller)
2. Chapter 7.2 should provide more details on the injected signal properties. Is it possible to identify a procedure? (Markus Soeller)
3. Chapter 8.3 uses the term “calibrated” and should be reviewed (Markus Soeller)
4. Phase shift between electrical and acoustic PD could provide additional useful information. (Markus Soeller)
5. Acoustic cameras are used to detect if PD emitted from the surroundings and could be added to the section that introduces the parabolic acoustic sensors. (Detlev Gross)
6. Annex B on signal processing needs rework (Detlev Gross)
7. The section 9.1 refers to a severity threshold of 300 to 500 pC. Such range is dependent on the type of PD and its location. Should be reviews (Markus Soeller).
8. Table 1 could be updated with speed of sound in silicone and ester oil with references. (Mathieu Lachance)
9. Localization cases could be added to Annexe C. (Detlev Gross)

It was observed that a few individuals missed the meeting because of a schedule conflict with the Condition Assessment Guide working group (PC57.170). A schedule change will be requested.

Adjournment

The meeting was adjourned at 10h30.

David Larochelle

Attendance List

Last Name	First Name	Affiliation	Status
Barker	**Sean**	Hitachi Energy	G
Berler	**Daniel**	ZTZ Services	G
Bouty	**Georges**	Delta Star inc.	G
Chan	**Vivian**	Hitachi Energy	G
Chiang	**Solomon**	TGC	G
Gagné	**Zach**	IFD Technologies	G
Garcia	**Eduardo**	Siemens Energy	G
Gasperin	**Eloy**	Mistras	G
Grandbois	**Luke**	IFD Technologies	G
Gross	**Detlev**	Independent	C
Harley	**John**	FirstPower Group LLC	VC
Hollrah	**Derek**	Burns McDonnell	G
Juchem	**Kevin**	Hitachi Energy	G
Lachance	**Mathieu**	Omicron	G
Larochelle	**David**	NDB Technologies	S
Lewis	**Samuel**	Hitachi Energy	G
Lin	**David**	IFD Technologies	G
Lopez-Fernandez	**Jose**	Universidad de WGO	G
Mamede	**Gabriel**	Siemens Energy	G
Martinez	**Alberto**	WEG USA	G
Maryer	**Robert**	Siemens Energy	G
Mbouombouo	**Mama**	Hitachi Energy	G
Mendez	**Omar**	Prolec GE	G
Montanha	**Juliano**	Siemens Energy	G
Moreno	**Andre**	Siemens Energy	M
Newbill	**Mark**	Hitachi Energy	G
Ortiz	**Cuauhtemol**	Niagara Power	G
Reimer	**Jonathan**	Fortis BC	G
Rocque	**Timothy**	Prolec Energy	M
Shalkh	**Abdulmajid**	Delta Star inc.	M
Soeller	**Markus**	Power diagnostix Systems	M
Szczechowski	**Janusz**	Reinhausen	M
Sze	**Matthew**	Omicron	M
Tan	**Jonathan**	Northern Transformer	G
Todstrud	**Mark**	Dynamic Ratings	G