Minutes of Meeting
WG: C37.301 IEEE standard for High-Voltage Switchgear (above 1000V) Test Techniques - Partial Discharge Measurements
Chair: Jean-Marc Torres
Vice Chair: /
Secretary: /
First Session (3:45 PM – 5:30 PM) - October 10, 2016
Location: Pittsburgh, PA
Participants: 32 Guests
(All guests introduced themselves)

Session #1 attendance list circulated and the chair asked all attendees to sign the roster and provide affiliation if not noted on the roster.

This is a new WG therefore there were no precedent agenda or meeting record.

The main agenda was to discussed the actions to be taken for C37.301 (original document dated 2009) and due to update by 2019

It was agreed that the document should be a guide/procedure for practice technique to be followed in regards of partial discharge.

Discussions were made for actions to be taken.

- Leave the document as it is
- Forward document to HVTT and ask them if they want to take over the re-write of the document
- Work with HVTT for the re-write of the document

HVTT Subcommittee response to Inquiry or

One fundamental requirement for the re-write of the document will be the availability of experts in the domain of partial discharge to join the WG.

Following the meeting ADSCOM will take ownership of the Std. C 37.301 and will reach at HVTT to support the re-write. C37.301 will be updated with all Std. applicable.

The session was adjourned.

Flowers, Keith (EM LP PRM CE APP)

From: Jeff Britton [jeff@phenixtech.com]
Sent: Wednesday, October 12, 2016 11:16 AM
To: Torres, Jean-Marc
Cc: Nigel McQuin; michael.wactor@powellind.com; todd.irwin@ieee.org; Jim McBride; Y Zhang
Subject: HVTT Subcommittee response to Inquiry on C37.301

Hello Mr. Torres,

I am contacting you at the request of Nigel McQuin regarding a request he brought forward as a new business item in our High Voltage Testing Techniques (HVTT) Subcommittee meeting held yesterday. He indicated that the Switchgear Committee must soon decide on a path for the revision of C37.301, covering PD measurement techniques. I understand that the Switchgear Committee is requesting whether the HVTT Subcommittee of PSIM would be willing to take on the task of creating a generalized IEEE standard covering electrical methods of PD measurement based on the "Apparent Charge (or picocoulomb) Method", with content similar to what is found in the existing IEC 60270 standard.

Let me start by saying that HVTT is very interested in supporting all current IEEE electrical equipment standards committees in the development of unified testing methods, including partial discharge. We recognize that several committees have already developed substantial PD documents, including Electrical Machinery Std. 1434, Transformers Std. C57.113, as well as Switchgear archive Std. 1291 and current Std. C37.301. As you might imagine, the development of a new horizontal IEEE standard that will adequately cover the state of the art PD measuring techniques for a broad range of equipment will be a substantial undertaking, especially since the majority of PD measuring system manufacturers are based in Europe, and are not presently regular participants in HVTT Subcommittee activities. In consideration of this fact, and in consideration of the loading that our current open projects are placing on HVTT membership resources, I must respond for the time being that our Subcommittee is not immediately in a position to muster sufficient hours and expertise to furnish in the short-term a unified guide to partial discharge measuring techniques, which could commonly satisfy a central IEEE need.

That being said, based on your inquiry I do intend to bring this discussion up in our next HVTT Subcommittee which is planned to take place approximately three months from now at the IEEE JTCM in New Orleans, in January 2017. Also, a number of HVTT members, including Jim McBride who presently chairs our parent PSIM Committee, will be attending the IEEE Transformers Committee meeting in Vancouver which begins in less than two weeks. We will therefore also have the opportunity to discuss your request further in Vancouver, and potentially (depending on their attendance at the meeting) we may be able to contact some PD equipment manufacturers who are often in attendance at the Transformers meeting to see if they may be willing to support HVTT directly as major contributors to a general IEEE PD measuring standard.

I look forward to receiving a response from your group based on my comments above. And if you have any additional specific information that may improve our understanding of this request (i.e. specific technical content that your Committee would find useful in such a document), please forward that back to me as soon as possible that I may circulate to others within HVTT and PSIM who are involved in making decisions on whether to take on such a project.

If it appears that there is sufficient support within HVTT and from some of the outside resources we would be relying on, I am willing to propose the creation of a task force within HVTT during the New Orleans meeting whose objective would be to consider the development of a common IEEE PD measurement standard, and report back to the Subcommittee on the feasibility and possible time frame for developing a document. Following that meeting, I can provide you with an update. If I can be of any further assistance right now, please feel free to contact me.

Best Regards,

Jeffrey A. Britton

Chair, IEEE HVTT Subcommittee
Chief Engineer, Phenix Technologies, Inc.