

Working Group for Application of High-Temperature Materials IEEE P-1276 – Roger Wicks

Hyatt Regency San Antonio Riverwalk – San Antonio, Texas USA

Room – Live Oak

April 14, 2015, 3:15pm – 4:30pm

A. Welcome & Chairman's Remarks

R. Wicks

Roger opened the meeting at 3:16pm explaining the purpose and scope of the WG, encouraging participation from members. He also indicated that Michael Franchek has resigned to the position of chair of WG and that he is assuming now this position. For now Mike will continue to have the position of vice-chair.

B. Circulation of Attendance Rosters

J. Arteaga

Circulated

C. Attendance for Quorum

J. Arteaga

16 members were in attendance meeting the quorum required. From the rosters at the end of the meeting there were 18 members in attendance and 43 guests. Of these 43 guests, 4 requested membership. The attendance will be reviewed and new members will be added if they meet current attendance requirements.

D. Approval of Fall 2014 Meeting Minutes – Washington, DC

J. Arteaga

Marion Jaroszewski made the motion to approve the minutes as written. Thomas Golner second it, and all members unanimously approved them.

E. Approval of Meeting Agenda

R. Wicks

The agenda was approved unanimously without changes.

F. Review of IEEE 1276 D1 Table of Contents/Changes

All

Chairman clarified the scope of the guide explained the difference of this with standard C57.154, where IEEE 1276 can expand in the information provided as tutorial.

Patrick McShane indicated that section 6 (Insulating Materials) is a duplicate of standard C57.154 and that the table of content currently does not include additional material like gaskets or accessories that need to be addressed. Also he indicated that the scope of both documents is almost the same, questioning the need for the guide, unless additional materials and components are included, which would lead to change the PAR with a new scope.

The chair indicated that this could be feasible once the different sections are completed and, with the members review, it may be identified to change the scope. At this time of development is too early to define and it will be looked at once the document completion is more advanced.

Richard Marek mentioned that the scope for C57.154, as well as of IEEE 1276 is broad enough that can include other materials that were not part of the standard, focusing more on identifying the types of insulation to use and the temperature limits of this.

The chair of the WG mentioned that previous revisions of IEC 60076-14 had good informative references that were omitted once it became a standard, and that this material can be reviewed by group members for its incorporation in present guide. Chair will request copies of this document through Erin for distribution between group members.

It was also identified that the use of enamel covered conductor that are mechanically modified (flattened) may have different thermal properties than the round conductor and that this information needs to be included in the guide.

An additional section will be added to guide to cover accessories and components in the transformer. Patrick McShane and Thomas Golner will draft a request to transformers manufacturers to identify the different accessories and components required for high temperature applications. This request will be requested to be circulated among members of the Insulation Life, Distribution Transformers and Insulating Fluids subcommittees.

Kurt Kainedes requested to have an updated table of contents list, and the chair will issue this, via e-mail to members, by May 15, 2015.

The chair made an emphasis that the PAR expires at the end of 2016 and that the guide needs to be balloted the summer of next year, so he encouraged the members to provide their feedback at the earliest possible.

- G. Assignment of tasks for the revision of the different sections of guide. The chair will reach out to working group members not on this list to get them to volunteer for the section(s) of their choice to maintain their membership. Goal is to have input on each of these sections by the end of this summer so a draft can be prepared to get the work going.

Introduction – it is very complete and it was requested to have additional comments by members of WG.

Section 4 - Merits of operating at high temperatures. Volunteers – Kurt Kaineder, Marion Jaroszewski, John Luksich, and Tom Golner.

Section 5 – Insulation-system temperature ratings, test procedures, and material aging qualification. Volunteers – Mike Franchek, Roger Wicks, Ken McNeish, Tom Golner, Dave Stankes, Solomon Chiang and Joshua Verdell.

Section 6 – Insulating Materials. Volunteers – Clair Claiborne, Javier Arteaga, Julio Calderia, Patrick McShane.

Section 7 – Description of high-temperature transformers. Volunteers – Kurt Kaineder, Mike Franchek and Arup Chakraborty.

Section 8 – Loading guidelines for high-temperature transformers. Volunteers - John Luksich, Arup Chakraborty

Section 9 – Nameplate. To be removed.

Section 10 – Heat run test and average winding temperature. Volunteers – Juan Castellanos, and Mike Franchek.

New section – Accessories. Volunteers – Tom Golner, Patrick McShane, Joshua Verdell

H. Old Business

No old business

I. New Business

No new business

J. Adjournment

No further discussion, so with this, Kurt Kainerder moved to adjourn, seconded by Marion Jaroszewski. Meeting adjourned at 4:20 PM.