



TRANSFORMER COMMITTEE

Location: Jacksonville, FL

Meeting Room: Grand Ballroom 5, Hyatt Hotel

Date: Tuesday, Oct 16, 2018

Time: 9:30 AM – 10:45 AM hours

Meeting Minutes Task Force on Condition Assessment

- Introductions
- The Task Force met at 9:30 AM on Oct 16, 2018 in the Grand Ballroom 5 of the Hyatt Hotel with 108 attendees (going by roster) in total with 51 (hand count) of the 98 TF members present. A quorum was present.
- Call for patents – there were no issues.
- The Jacksonville meeting agenda was approved and adopted.
- The previous minutes from Louisville and Pittsburgh were approved- proposed by Luiz and seconded by Joe Watson.
- Brian Sparling: Brian asked the TF if we need to develop a new condition assessment guide or revise the existing C57.140 guide. He identified a number of gaps between the almost approved CIGRE A2.49 guide and the C57.140 guide. Brian stated that CIGRE is okay with the idea of using their document provided IEEE makes the necessary acknowledgement while revising the C57.140 guide.
- Joe Watson felt that we should open up the C57.140 guide and revise it. Paul Bowman also supported this idea.
- Tom Prevost supported the idea of opening up C57.140 and revise the necessary sections to fill the gaps but not necessarily copy the A2.49.
- Patrick Picher started a discussion on Chapter 7 of C57.140. Joe Watson mentioned C57.140 has considered the individual failure probabilities of all components to obtain an overall cumulative probability which in turn provides input to the overall transformer failure probability. Luiz Cheim suggested we should focus on RCM evaluation method in the revision of C57.140 and not base it on simple health indices as used by many utilities now. Brian added that A2.49 guide has a good condition assessment method and severity of condition section.
- Tom Prevost reminded the TF that C57.140 contained many sections covering repairs, life extension, component upgrading and that if C57.140 is to be revised then its scope will have to be changed.
- Ali Naderian felt that CIGRE is a solid guide for condition assessment, but we have to be careful about how we go about using it.
- Roger Fenton felt that A2.49 is too complex and we should look at oil condition and gas energy levels to simplify the methods of arriving at condition assessment indices.

- Jeffrey Wright stated that condition assessment is not in the scope of C57.140 and will need to be added if it is revised.
- Poorvi Patel mentioned that C57.140 is more focused on reconditioning transformers.
- Joe Watson felt we should lay guidelines for condition assessment in C57.140 and gave the example of how DGA was introduced in 1980 but analytical tools were not available until much later.
- Bill Whitehead and Emilio proposed a motion to close this TF and open up C57.140 to add knowledge. Joe Watson felt we could add the chapters to C57.140 to fill the gaps with A2.49. Jim Graham suggested we move that the TF has completed its work and let the SC make this recommendation.
- Tom Prevost made the motion that the TF recommend to the SC that a new WG be started to develop a new condition assessment guide. Luiz seconded it. Sue asked if we to consider if C57.140 should also be revised. The motion passed with 44 votes in favor and 7 opposed to it.
- Jim Graham thought that we could make more than one recommendation to the SC
- David Wallach (seconded by Craig S) moved a second motion to open C57.140, perform gap analysis and make recommendations to the SC. Joe Watson and Tom Prevost objected to this motion.
- Bill Griesacker, the SC chair, felt that we need to make only one recommendation from the TF. After some discussion, David W withdrew his motion (seconded again by Craig S).
- Conclusion reached is to make the recommendation to the Power Transformers SC, to begin the process of developing a new Guide for the Condition Assessment of Power Transformers.
- The TF, having completed its task has now disbanded
- The TF meeting was adjourned after this discussion.

SUBSEQUENT TO THE TF meeting, additional information became available at the Power Transformers SC meeting,

- 1) During the discussion in the Power Transformers SC, the Chairman was informed by Gary Hoffman, that our task has not been completed.
- 2) Though we did discuss a scope and title in previous meetings, the TF must come up with a revised Title and Scope and a Purpose that focusses on condition assessment, and recommend a new PAR to the PTSC, to move forward.
- 3) Therefore, there will be a meeting of the TF for Condition Assessment at the Spring meeting in Anaheim. The objective of the meeting will be the development and approval of the items detailed above.
- 4) Between now and the spring meeting, Kumar Mani and I will be arranging some WEB or conference call meetings for the TF members to have some preliminary discussions on the above noted points

Brian Sparling Chair

Kumar Mani Secretary