



IEC TC14 Power Transformers

Chairman: Christoph Ploetner, DE

Secretary: Mick Maghar, UK

**Summary report to
IEEE Transformers Committee
Spring meeting
Anaheim, March 2019**



General Information TC14

- **Membership**
 - P - Members: 36
 - O - Members: 12
- **Registered experts** 258
- **Web page for all details and tools** www.iec.ch/tc14
- **Currently active MT, PT, WG, AHG** 11+2 to come
- **Documents maintained / in development** 38
- **Last plenary meeting** Sep 2018 in Glasgow
- **Next plenary meeting** 18-19 Sep 2019 in Paris
- **Joint meeting TC10/TC14** 17 Sep 2019 in Paris



Recently published

- **IEC/IEEE 60076-21 Step voltage regulators**
 - Convener Craig Colopy, US
- **IEC 60076-22-x Transformer and Reactor Fittings**
 - 1 Protective devices**
 - 2 Radiators**
 - 3 Liquid to air coolers**
 - 4 Liquid to water coolers**
 - Convener Gianmarco Ghioldi, IT



Revisions in progress

- **IEC 60076-1 General**
 - Convener Paul Jarman, UK
- **IEC 60076-2 Temperature rise**
 - Convener Dejan Susa, NO
- **IEC 60076-4 Guide to LI and SI testing**
 - Convener Thang Hochanh, CA
- **IEC 60076-5 Ability to withstand short circuit**
 - Convener Jean-Christophe Riboud, FR



Revisions in progress

- **IEC 60076-6 Reactors**
 - Convener Rob Verhoeven, NL
- **IEC 60076-19 Uncertainties in Loss Measurement**
 - Convener Anders Bergman, SE
- **IEC/IEEE 60214-2 Tap-changer application guide**
 - Convener Axel Kraemer, GER
 - FDIS approved – publication soon



Ad Hoc Groups

- **Ad Hoc Group 35**

Functional classification of power transformers

- Convener: Angelo Baggini, IT
- Report on classification of power transformer technologies in terms of functionality. Include new technologies (power electronics...)
- Report on the need to amend the scope of TC 14

- **Ad Hoc Group 36**

Coordination of thermal requirements in existing standards

- Convener: Rick Marek, US
- Develop a new structure for future IEC TC14 thermal standards
- First meeting agreed for May 23rd + 24th in Berlin, GER



NEW Joint Working Group

IEC / IEEE

- **JWG – IEC TC38 / IEC TC14 / IEEE**

Development of an IEC/IEEE Dual Logo standard for Station Service Voltage Transformers (SSVT)

- IEEE approved common development although PC57.13.8 is already working on such standard – Thank you!
- IEC approval of work item expected soon – call for experts to circulate afterwards
- Convener Ross McTaggart, CA



IEC/IEEE – Overview

Existing dual logo documents: 6

Dual logo documents agreed to develop: 2

Potential subjects for dual logo documents in future: several

Suitable “fields” for dual logo documents

- Special transformers beyond “main stream”
- Specific products
- Specific performance requirements

Observations

- ...

Future of dual logo standards

- ...

This and other details of IEC/IEEE collaboration will be discussed during USTAG Meeting - Wednesday - 7am - Laguna - Phil Hopkinson