

IEC TC14 Power Transformers

Report to IEEE Transformers Committee November 2011 Boston Paul Jarman Chairman IEC TC14

- Last meeting Melbourne, Australia 23-24th October 2011
- Next meeting Manchester, United Kingdom 20-21st September 2012
- Website WWW.IEC.CH/TC14
 Summary of projects and publications
- www.electropedia.org comprehensive electrotechnical vocabulary reference



Newly issued transformer standards

- 60076-1 Power transformers General
 - Edition 3 Issued April 2011
- 60076-2 Temperature rise tests
 - Edition 3 Issued Feb 2011
- 61378-1 Converter transformers Transformers for industrial applications
 - Edition 2 issued July 2011
- 60076-16 Transformers for wind turbine applications
 - Edition 1 published August 2011



Revisions in progress

- 60076-3 Dielectric tests
 - Second draft issued, comments received.
 - Comments discussed in Melbourne and draft for voting to be produced early 2012
 - Document has been simplified and many conflicts with IEEE removed substantial change many comments
- 60076-10 Determination of Sound Levels
 - First committee draft complete and circulated comment deadline
 9th December
- 60076-14 Transformers using high temperature insulation materials
 - Comments on first draft of revision received
- 61378-3 Converter transformers Application Guide
 - Revision started first draft expected June 2012
- IEC 60214 Tap changers
 - First committee draft expected April 2012



New documents in progress

- 60076-17 Evaluation of electromagnetic fields
 - Technical report based on a CENELEC document awaiting revision and publication. Expected early 2012
- 60076-18 Measurement of Frequency Response
 - Draft for vote circulated and positive result received. Expect to complete final draft in December 2012
- 60076-19 Rules for the determination of uncertainties in loss measurement
 - First draft based on an existing CENELEC circulated and comments received
- 60076-20 Energy efficiency
 - Work started, first draft expected 2012.



IEC / IEEE documents

- IEC 60076-21 C57.12.15 step voltage regulators
 - Approved for publication as a dual-logo standard
 - Should be published this year
- IEC 62032 Phase shifting transformers
 - TC14 agreed to adopt revised IEEE C57.135 and re-issue 62032 dual-logo guide Awaiting approval from Standards Management Board and National Committees
 - Hope to start joint work on a standard
- IEC 60076-16 Transformers for wind turbine applications
 - Proposal accepted by TC14 to start revision of this document jointly with IEEE. Requires approval by National Committees



New work

- IEC 60076-22 Transformer and Reactor Fittings
 - Publish EN 50216 as an IEC
 - Ad hock group proposed structure
 - Part 1 Protective devices
 - Part 2 Cooling equipment
 - Part 3 Basic accessories
- IEC 61378-2 Transformers for HVDC applications
- IEC 60076-15 Gas insulated transformers
- IEC 60616 Terminal markings
 - Revisions will start