

10.4 CIGRE liaison report JC Riboud

10.4.1 Cigré miscellaneous

CIGRE transformer committee A2 met for its colloquium in Merida Mexico last June. This colloquium was attended by a large number of participants revealing the high interest given to electrical technical matters.

10.4.2 Work planned

An article giving the state of the art in gas insulated transformer will be prepared by specialist for publication in the CIGRE review ELECTRA.

A very interesting report on the moisture behaviour in transformer insulation will be soon published and available from CIGRE. This report covers subject of source of moisture and moisture distribution in transformer insulation as well as moisture equilibrium, solubility of water in oil, moisture migration, and also propose a panel of hazardous effects of moisture

10.4.3 A2 achievement

Two new brochures are or will be published this year as result of working group studies:

N°227 is for sale since June and deals with life management techniques of power transformers, its the result of the work made by the working group A2 18

The brochure resulting in the work of group 12 16 on instrument transformers will be published at the end of 2003.

Those documents can be purchased from CIGRE all information may be found on www.cigre.org

10.4.4 A2 Final report expected before end of 2003

Economic of Transformer Management final report will be release by the working group A2 20 before the end of 2003.

Electrical Environment of transformers final report will be release by the working group A2/A3/B3 21 before the end of 2003. This report deals with transformer and breaker interaction for high voltage transformers. Its work had been based on a careful analyses of actual failures mostly linked with SF6 Failures. It proposes some clues to evaluate the risk and mitigate it.

10.4.5 A2 Work in process

There are currently four working groups ongoing:

A2 23 on lifetime data management with task forces on
Specification for data's and reason why
Management of data's
Data collection

A2 24 on thermal performances of power transformers . The scope of which will cover the fundamental of ageing.; the rating of new transformers and special attention will be paid to gas turbine transformers, and also practical applications for in service transformers.

D1/A2 01 11 On new advance in DGA interpretation

A4 04/ A2 1 On Analysis of HVDC system performances correlated to converter transformer performances.

10.4.6 A2 Future activities

A reliability advisory group is created. It 's intended that this group produce failure guide and failure definition.

Reliability will be the main topic for CIGRE 2005 colloquium.

10.4.7 A2 New working group proposal

Bushing reliability may look after the trend of bushing performances and their long term reliability impact.

Mechanical condition of windings with assessment of frequency response analysis. The idea is to promote good practices and some standards for FRA measurement and to prepare the next step which could be FRA interpretation.

10.4.8 CIGRE next meeting

Paris session will be held in 2004, the two preferential subjects for transformers are:

1 Thermal performances

2 On site operation and maintenance.

You can find more on www.cigre-sc12.org