

### 13.3 CIGRE liaison report JC Riboud

Study Committee A2 Transformers

Last SC committee met in Paris during the Cigré Session

#### Main members

Chairman is Mr Pierre Boss (CH) [pierre.boss@ch.abb.com](mailto:pierre.boss@ch.abb.com)

Secretary is Mr Claude Rajotte (Ca) [pierre.boss@ch.abb.com](mailto:pierre.boss@ch.abb.com)

#### WG 24 Thermal

3 actions in 2006:

- Thermal ageing of paper
- Tutorial on thermal performances
- Two Task Forces one on new design and one on in service units

#### WG 23 Data management:

Brochure N° 298 "Guide for transformer lifetime data management" is issued and for sale  
The WG is disbanded.

#### WG 25 Bushing reliability conclusion

- Problems of moisture ingress in bushings
- Too many different capacitive taps creates misuse and danger

The WG is disbanded

#### WG 26 Mechanical conditions assessment using FRA

- Intermediate report shows problems of repeatability of tests in high frequency range due to cabling.
- Work planned to be finished in 2007

#### WG 27 condition monitoring facilities

- Make recommendation for provision for sensor, facilities or data's for new transformers.
- Will complete before end 2006

#### WG 28 HVDC

Failure rate was quite high in the past years

Main problems areas were:

- Turn to turn DC side
- Leads and cleat bars
- DC bushing
- Copper sulphur
- Commutation and high frequency transient

Design review guide is under editorial review before publication

Test specification:

- Proposal of a new extended polarity reversal test to better take care of the effect of conductivity.

#### WG 29 reliability survey

Disbanded because of lack of answers.

#### WG 30 Moisture in transformer brochure

Brochure will be submitted for ballot in February 07. It includes new information on how to protect transformer from moisture.

#### WG 32 Corrosive sulphur

A new test for corrosive sulphur detection in oil is proposed as Cigré standard it includes copper and paper.

#### New WORK

- Fire safety of transformers
- Guide for maintenance
- New state of the art on new liquids

#### Preferential subjects for 2008

PS1: Guidance in new insulation liquids and solids for improvement of performances and reliability

PS2: Life estimation / consumption of transformer in service

PS3: Shunt reactors and related items.

Next meetings: 2007 Bruges (Brugge) in Belgium.

You can find more on [www.cigre-scA2.org](http://www.cigre-scA2.org)