

Summary

GENERAL CONSIDERATIONS

- 01 Diagnostics and monitoring techniques for life extension of transformers
- 02 Diagnostic and monitoring technology for large power transformers
- 03 Life management of power transformers

GENERAL CONCEPTS AND EXPERIENCE

- 04 Polish experience with life management of power transformers
- 05 Experience of life assessment and refurbishment of 110 kV, 220 kV and 400 kV power transformers
- 06 Effectiveness of life management procedures on large power transformers

GENERAL EFFECTIVENESS

- 07 A data bank of failed power transformer units : Post-mortem inspection x dissoveld gas analysis

NEW METHODS

- 08 The application of interfacial polarisation spectra for assessing insolation condition in aged power transformers
- 09 Life estimation of transformer oil-paper insolation usine C02+CO

SPECIFIC PROBLEMS BUSHINGS

- 10 Ten years of experience in CFE with transformers failures in which bushings were involved

SPECIFIC PROBLEMS OLTC

- 11 Life management of power transformers

CASE STUDIES

- 12 Windings inter-strand insolation failure identification and location of fault
- 13 Fullers earth treatment of 16 transformers
- 14 Report on failure of a 245 kV, 150 Mvar, three phase shunt reactor
- 15 Gas production in generator transformer, located in LV-winding between winding partleaders in DELTA-connection
- 16 A case story about arcing in oil located in the clamping system of the yoke or what to do before and after repair
- 17 Arcing in oil and paper in 300 kV winding turn-to-turn disc-to-disc transformer serving 2 power stations transformer to factory for repair in 1997 and 1 998
- 18 Procedure and field measurements for the diagnosis of internal arcing in a GSU transformer
- 19 Failure of off-load tap changer (TC)