PROGRAM

Day I – 12 May 2015 r.

13:00 Registration
14:00-15:00 Lunch
15:00-15:30 Welcome Ceremony
15:30-18:25 Tutorial

On-Load-Tape-Changers (OLTCs) – design, maintenance, diagnostic testing – selected issues

Chairman: Ivo Pinkiewicz, Institute of Power Engineering

15:30-15:35 Presentation of the main topics of Tutorial
I. Pinkiewicz, Institute of Power Engineering

15:35-16:05 1. Introduction
15:35-16:00 OLTC – purpose of use, design and operation, an idea of voltage regulation, parameters.
OLTC installed in step-up transformers
M. Kaźmierski, Institute of Power Engineering
16:00-16:05 OLTC specifications when ordering
I. Pinkiewicz, Institute of Power Engineering

16:05-16:45 2. Current trends in the construction of tap changer
16:05-16:15 Introduction
M. Kaźmierski, Institute of Power Engineering
16:15-16:45 Qualification of vacuum tap changers
L. Liden, ABB AB, Components
16:45-16:55 Discussion

16:55-17:20 Coffee break

17:20-18:45 3. Operation of OLTC
17:20-17:25 Introduction
M. Kaźmierski, Institute of Power Engineering
17:25-17:45 On-load tap changers diagnosis – an off-line method for detection of degradation effects and faults
J. Erbrink, R. Jongen, Onsite hv solutions AG Lucerne/Switzerland, J. Parciak, Onsite hv solutions Central Europe Sp. z o.o.
17:45-18:05 Vacuum tap changers
P. Kubat, Revos
18:05-18:25 Discussion

18:25 End of the first day of the Conference
19:00 Dinner
Day II – 13 May 2015 r.

6:30-9:00 Breakfast

9:00-10:00 Tutorial cont’d. 4. National operational practice

9:00-9:05 Introduction
M. Kaźmierski, Institute of Power Engineering

9:05-9:20 Changes in the maintenance of OLTC in RWE Stoen Operator
W. Rachaus-Lewandowska, J. Jakubowski, RWE Stoen Operator Sp. z o.o.

9:20-9:35 OLTC acoustic diagnosis-practical experiences
A. Cichoń, Opole University of Technology, P. Mański, PSE SA, S. Borucki, Opole University of Technology

9:35-9:45 OLTC Monitoring
M. Kaźmierski, Institute of Power Engineering

9:45-10:00 Discussion – End of Tutorial

10:00-10:20 Coffee break

10:20-11:40 Session I – Monitoring of Power Transformers

1. Development trends in on-line monitoring of power transformers
W. Gil, Mikronika

2. Monitoring, Diagnostics, Or Changing Condition ?
M. Tostrud, PE, B. Sparling, Dynamic Ratings Inc.

3. Transformer fleet monitoring & management
E. Steindl, Maschinenfabrik Reinhausen Automation & Control

4. Continuous condition monitoring and power grid protection of high voltage transformers by sensor monitoring of oil aging
M. Mauntz, cmc Instruments GmbH, U. Kuipers, South Westphalia University of Applied Sciences, J. Peuser, cmc Instruments GmbH

Discussion

11:40-12:00 Coffee break

12:00-12:50 Session II – Commercial

12:50-13:00 Coffee break

13:00-14:00 Session III – Wybrane zagadnienia metrologiczne

5. The module for non-contact measurement of high voltage in power transformer on line monitoring system
K. Walczak, W. Sikorski, Poznan University of Technology

6. A comparison of PD measurement metods - acoustic, electric and UHF
A. Cichoń, J. Skubis, M. Kunicki, Opole University of Technology

Discussion

14:00-15:30 Lunch

15:30-16:50 Session IV – Service of Power Transformers

7. Routine, type and special tests of transformers in the light of new Standards series PN-EN 60076 and Directive of the EU no. 548/2014
A. Krajewska, Instytut Energetyki

8. Use of the Duval's triangle method to interpret the measured concentrations of dissolved gases in transformer oil
T. Piotrowski, P. Różga, Lodz University of Technology

9. The influence of bushing surface condition on the measurement results obtained using FDS method
J. Gielniaik, Poznan University of Technology

10. The change of power transformers’ technical parameters as a result of entering into force Directive of the European Parliament and of the Council 2009/125/WE with
regard to power transformers

A. Kapczyński, ABB Sp. z o.o.

Discussion

16:50 End of the second day of the Conference
19:00 Dinner

**Day III – 14 May 2015 r.**

6:30-9:00 Breakfast

9:00-10:00 Session V – Badania materiałowe
11. Selected aspects of cooperation of solid insulation with dielectric liquids that are alternative for mineral oil
   P. Różga, T. Piotrowski, Lodz University of Technology
12. Water content in electroinsulating liquids with the use of capacitive probe
   P. Przybyłek, K. Siodła, Poznan University of Technology
13. Endothermic phenomenon accompanying bubble effect development
   P. Przybyłek, H. Morańda, K. Walczak, H. Mościcka-Grzesiak, Poznan University of Technology
14. Limitation of short-circuit currents in superconducting transformers
   Ł. Woźniak, Enea Wytwarzanie SA.

Discussion

10:00-10:40 Coffee break

10:40-11:40 Session VI – Problemy eksploatacyjne
15. Praca transformatora z występującą z nim asymetrią rezystancji uzwojeń
   J. Łukaszewicz, Z. Załączny, PGE GiEK SA Oddział Elektrownia Belchatów
16. Voltage regulation problems in Medium voltage networks caused by integration of distributed generation and methods of solving them
   W. Sobczak, ABB Sp. z o.o.
17. Experiences from the realization of diagnostic testing program of power transformers 110 kV/ MV, in Tauron Dystrybucja Joint-Stock Company
   J. Frymus, TAURON Distribution SA

Discussion

11:40-12:00 Summary
12:00 End of Conference
12:30 Lunch