

# IEEE Guide for Diagnostic Field Testing of Electric Power Apparatus— Part 1: Oil Filled Power Transformers, Regulators, and Reactors

Sponsor

Power System Instrumentation and Measurements Committee  
of the  
IEEE Power Engineering Society

Approved March 16, 1995  
IEEE Standards Board

**Abstract:** Diagnostic tests and measurements that are performed in the field on oil-immersed power transformers and regulators are described. Whenever possible, shunt reactors are treated in a similar manner to transformers. Tests are presented systematically in categories depending on the subsystem of the unit being examined. A diagnostic chart is included as an aid to identify the various subsystems. Additional information is provided regarding specialized test and measuring techniques.

**Keywords:** Oil filled transformers, regulators, reactors, diagnostic evaluation, off-line testing, field testing, windings, bushings, insulating fluids, tapchangers, core, tanks, safety.

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The Institute of Electrical and Electronics Engineers, Inc.  
345 East 47th Street, New York, NY 10017-2394, USA

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ISBN 1-55067-529-9

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# Criticality Of Oil Level Of Power Transformers And Regulators

**South African Bureau of Standards**



## **Criticality Of Oil Level Of Power Transformers And Regulators:**

*Keeping the Lights on* United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Oversight of Government Management, the Federal Workforce, and the District of Columbia, 2004      Water and Energy International, 2015      *Energy Research Abstracts*, 1988      *Science Abstracts*, 1993      **Federal Register**, 1990-11      *The British National Bibliography* Arthur James Wells, 1960      *Nuclear Engineering*, 1959      *Nuclear Engineering International*, 1959      *Energy Research Abstracts*, 1987 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information      Monthly Index of Russian Accessions, 1964      **Monthly Index of Russian Accessions** Library of Congress. Processing Department, 1964-10      Permissible Loading of Oil-immersed Transformers and Regulators Engineering and Research Center (U.S.). Division of Power Operation and Maintenance, 1975      *Power Transformer Diagnostics, Monitoring and Design Features* Issouf Fofana, Ph.D. ing. Chairholder, 2019-01-09 This book is a printed edition of the Special Issue Power Transformer Diagnostics Monitoring and Design Features that was published in *Energies*      *Testing for Combustible Gases in Power Transformers and Regulators* Engineering and Research Center (U.S.). Division of Power Operation and Maintenance, 1971      Permissible Overloading of Oil Immersed Transformers and Regulators [with List of References], 1957      **Power Transformers** International Electrotechnical Commission, International Electrotechnical Commission. Technical Committee 14, 2009      *Quality Confirmation Tests for Power Transformer Insulation Systems* Behrooz Vahidi, Ashkan Teymouri, 2019-05-27 This book focuses on oil paper insulation included in power transformers especially for EHV and UHV transformers The importance on insulation ever increased due to a growing voltage rating of transformers Within the last decades although research on the transformer insulation and diagnosis methods has advanced a lot the insulation of HV transformers remained more or less unchanged The book is divided into five chapters the first and second chapters explain the basics of oil insulation while the third chapter focuses on paper insulation The final two chapters deal with the methods and outcome of testing both techniques The primary target audience for this book is graduate students and power system engineers      **Power Transformers** South African Bureau of Standards, 2018      **Power Transformers. Standard Requirements, Terminology, and Test Code for Step-Voltage Regulators** British Standards Institute Staff, 1912-02-29 Power transformers Measurement Frequency analyzers Recording instruments measurement Frequency response Amplitude Ratios Terminology      **Life Expectancy Investigation of Transmission Power Transformers** Dongyin Feng, 2013 The health of the transmission power transformers in the power system networks is critical to the reliability of electricity supply Knowing the precise life expectancy of the transmission power transformer is of vital importance as it permits an optimised asset replacement The traditionally regarded transmission power transformer's life expectancy of 40 years is considered dated for the transformers in the UK according to the transformer life data in 2010 In this thesis it is aimed to investigate the life expectancy of the

transmission power transformer in the UK from three aspects statistical analysis on historic transformer life data thermal modelling of in service transformers and through the in service transformers furan measurements A detailed statistical analysis shows that deriving the transformer's reliability at a certain age by calculating the hazard rate is inadequate as the hazard rate at each age has a statistical range in which the confidence band width is related to the amount of the reliability data The transformer life data in all ages are grouped together to derive a general hazard rate of 0.27% It is concluded that the transformer life expectancy could not be derived via statistical approaches due to the limited data available at the older transformer ages As an alternative approach regarding the life of insulating paper as the ultimate life of a transformer the thermal model published by the IEC transformer loading guide 60076-7 is reviewed and extended to estimate a transformer's thermal lifetime The model is improved in two aspects such that Arrhenius equation is adopted to consider the paper's practical ageing mechanism of oxidation and hydrolysis when calculating the paper's ageing rate and the model takes consideration of the paper's moisture accumulation effect The developed thermal model is used to reversely derive the generally unknown model input hot spot factor by the means of regarding the scrapped transformer's degree of polymerisation DP predicted thermal lives as a benchmark Assigning the derived hot spot factor to the field units with regard to the design family the thermal lives of 106 in service transformers have been estimated To enlarge the life sample the modelling lives are combined with the 79 scrapped transformers DP predicted thermal lives The thermal life expectancy defined as the median life of the sample set is derived as 88 years A series of sensitivity studies are performed to examine the derived life expectancy's responses on the variations of load winding to oil gradient top oil temperature rise and the setting of winding temperature indicator As a non intrusive approach in transformer's insulating paper assessment the correlations between the 2-furaldehyde 2FAL concentration dissolved in transformer oil and paper's DP derived by different laboratories are reviewed which are found to differ significantly As a first time attempt to derive the 2FAL DP correlation relationship for the field transformers the paper's DP is estimated at the age when oil was sampled using the thermal model and is plotted with the 2FAL measurement De Pablo's equation is found to fit the plot of the DP estimates against the 2FAL measurements better than other function formats The 2FAL concentrations corresponding to the paper's critical DP levels are given using the developed 2FAL DP correlation relationship

## **Criticality Of Oil Level Of Power Transformers And Regulators** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Criticality Of Oil Level Of Power Transformers And Regulators**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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