

WITHDRAWN

IEEE Std 1388™-2000 (Withdrawn 2006)

IEEE Standard for the Electronic Reporting of Transformer Test Data

Sponsor

Transformer Committee
of the
IEEE Power Engineering Society

Withdrawn 3 February 2006

IEEE-SA Standards Board

The Institute of Electrical and Electronics Engineers, Inc.
3 Park Avenue, New York, NY 10016-5997, USA

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Print: ISBN 0-7381-2726-4 SH94903
PDF: ISBN 0-7381-2727-2 SS94903

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Abstract: A basis for the electronic reporting of transformer test data on liquid immersed distribution transformers as defined in the ANSI C57.12.2X standards series is provided. The specific set of test data to be reported and the format in which it is to be reported is detailed along with an extended set of data as an option for the user.

Keywords: distribution transformers, electronic reporting, test data

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Introduction

(This introduction is not part of IEEE Std 1388-2000, IEEE Standard for the Electronic Reporting of Transformer Test Data.)

This is a new standard, and so far is as known, the first document to be written covering electronic reporting of transformer test data, either nationally or internationally.

Producers of transformers have always provided users with transformer test data when requested. However, as the majority of users incorporated lifetime owning costs of distribution transformers into their purchasing decisions through loss evaluation in the late seventies and early eighties, they also began to request producers to report loss data on each transformer shipped. The amount of test data supplied by producers to users increased dramatically.

In order to handle the volume of data, distribution transformer producers automated the collection of this data in their factories and began supplying computer generated hardcopy test data reports to users. This solution initially benefited the producers because it solved the problem of economically reporting large volumes of data. It also initially satisfied the user's need to be able to verify that they were indeed receiving product that performed as promised.

However, as users began tracking the data and using it for other purposes, they found that having the data on hardcopy reports required them to re-enter the data on their computers. This seemed particularly unproductive since producers already had the data on computers and begged the question of why the data could not just be reported electronically. Many users subsequently began requiring producers to report the data electronically.

A new problem arose. Although differently formatted data on hardcopy reports was highly inconvenient to the users, at least communication was successful. With electronic test data reporting, successful communication could not take place until an agreement on reporting format was reached. As a result, individual users requesting electronic test data reports worked with individual producers and agreed on reporting formats.

The current situation is that producers are incurring the cost of supplying test data in many different formats and users are incurring the cost of negotiating formats with each of their distribution transformer producers.

In summary, the need for this standard evolved as loss evaluation of distribution transformers became widespread, resulting in the need to report large volumes of data, and the need of users to store this data on their computers. The purpose of this standard is to address the need to standardize electronic test data reporting on distribution transformers and eliminate the unnecessary costs that are being incurred by producers and users due to the lack of a standard.

This standard is a voluntary consensus standard. Its use should become mandatory only when required by a duly constituted legal authority, or when specified in a contractual relationship. To meet specialized needs and to allow innovation, specific changes are permissible when determined by the user and the producer, provided such changes do not violate existing laws, and are considered technically adequate for the function intended.

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