

PC57.109

Submitter Email: vinay_mehrotra@yahoo.com

Type of Project: Revision to IEEE Standard C57.109-1993

PAR Request Date: 21-Jan-2015

PAR Approval Date: 26-Mar-2015

PAR Expiration Date: 31-Dec-2019

Status: PAR for a Revision to an existing IEEE Standard

Root Project: C57.109-1993

1.1 Project Number: PC57.109

1.2 Type of Document: Guide

1.3 Life Cycle: Full Use

2.1 Title: Guide for Liquid-Immersed Transformers Through-Fault-Current Duration

Changes in title: ~~IEEE~~ Guide for Liquid-Immersed Transformers Through-Fault-Current Duration

3.1 Working Group: Performance Characteristics - Liquid-Immersed Transformers Working Group (PE/TR/PerfCharac-WGC57.109)

Contact Information for Working Group Chair

Name: Vinay Mehrotra

Email Address: vinay_mehrotra@yahoo.com

Phone: 2623474726

Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Transformers (PE/TR)

Contact Information for Sponsor Chair

Name: Donald Platts

Email Address: donplatts@ieee.org

Phone: 610-703-4062

Contact Information for Standards Representative

Name: William Bartley

Email Address: wbartley@ieee.org

Phone: 860 205 0803

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 01/2016

4.3 Projected Completion Date for Submittal to RevCom: 10/2016

5.1 Approximate number of people expected to be actively involved in the development of this project: 25

5.2 Scope: This guide applies to transformers referenced in IEEE Std C57.12.00 as Categories I, II, III, and IV. It sets forth recommendations essential for the application of overcurrent protective devices applied to limit the exposure time of transformers to short-circuit currents (see IEEE std C37.91). This guide is not intended to imply overload capability.

Changes in scope: This guide applies to transformers referenced in IEEE Std C57.12.00-1993 as Categories I, II, III, and IV. **It sets forth recommendations essential for the application of overcurrent protective devices applied to limit the exposure time of transformers to short-circuit currents (see IEEE std C37.91). This guide is not intended to imply overload capability.**

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: Protective devices such as relays and fuses have well-defined operating characteristics that relate fault magnitude to operating time. These characteristic curves should be coordinated with a comparable curve(s) applicable to transformers that relate duration and fault magnitude to withstand capability.

Changes in purpose: Protective devices such as relays and fuses have well-defined operating characteristics that relate fault magnitude to operating time. These characteristic curves should be coordinated with a comparable curve(s) applicable to transformers that relate duration and fault magnitude to withstand capability. ~~This guide sets forth recommendations believed essential for the application of overcurrent protective devices applied to limit the exposure time of transformers to short-circuit currents [see IEEE Std C37.91-1985 (Reaff 1991)]. This guide is not intended to imply overload capability.~~

5.5 Need for the Project: The guide was first revised in 1993 and then reaffirmed in 2008. It needs to be revised to bring it with in line with changes in other standards referred in the guide. The definitions referred in the guide are no longer present in the IEEE standard C57.12.80.

5.6 Stakeholders for the Standard: Utilities, industrial owners, manufacturers

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): 5.2 C57.12.00, IEEE Standard for General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers

5.2 C37.91, IEEE Guide for Protecting Power Transformers

5.5 C57.12.80, IEEE Standard Terminology for Power and Distribution Transformers