

PC57.127

Submitter Email: gross@pdix.com

Type of Project: Revision to IEEE Standard C57.127-2007

PAR Request Date: 12-Nov-2014

PAR Approval Date: 16-Feb-2015

PAR Expiration Date: 31-Dec-2019

Status: PAR for a Revision to an existing IEEE Standard

Root Project: C57.127-2007

1.1 Project Number: PC57.127

1.2 Type of Document: Guide

1.3 Life Cycle: Full Use

2.1 Title: Guide for the Detection, Location and Interpretation of Sources of Acoustic Emissions from Electrical Discharges in Power Transformers and Power Reactors

Changes in title: ~~IEEE~~ Guide for the Detection, **Location** and **Location**~~Interpretation~~ of **Sources** of Acoustic Emissions from ~~Partial~~**Electrical** Discharges in ~~Oil-Immersed~~ Power Transformers and **Power** Reactors

3.1 Working Group: Dielectric Tests - Detection on PD - Acoustic Emission WG (PE/TR/Dielectric-WGC57.127)

Contact Information for Working Group Chair

Name: Detlev Gross

Email Address: gross@pdix.com

Phone: +49 241 74927

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: 02/2018

4.3 Projected Completion Date for Submittal to RevCom: 08/2018

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2 Scope: This guide is applicable to the detection and location of sources of acoustic emissions from partial discharges and other sources in power transformers and power reactors. There are descriptions of acoustic instrumentation, test procedures, and interpretation of results.

Changes in scope: This guide is applicable to the detection and location of **sources of** acoustic emissions from partial discharges and other sources in ~~oil-immersed~~ power transformers and **power** reactors. ~~Both electrical sources (partial discharge) and mechanical sources (such as loose clamping, bolts, or insulation parts) generate these emissions.~~ There are descriptions of acoustic instrumentation, test procedures, and interpretation of results. ~~When this guide is used with oil-immersed reactors, it must be understood that interpretation of signals may be different because of the construction of the reactor. Accuracy of location depends on the type of fault, configuration of tank, type of instrumentation, and experience.~~

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

5.4 Purpose: This guide is intended to provide information that may be helpful in planning, installing, and operating acoustic measuring equipment and in meaningful interpretation of resulting data.

Changes in purpose: This guide is intended to provide information that may be helpful in planning, installing, and operating acoustic ~~monitoring~~**measuring** equipment and in meaningful interpretation of resulting data. ~~Users are intended to be persons knowledgeable in this~~

~~field such as utility engineers, consultants, academics, and manufacturers.~~

5.5 Need for the Project: Provide technical and application information for users of acoustic instruments

5.6 Stakeholders for the Standard: Users of instruments and interpreters of test results in power transformer acoustic partial discharge detection and location applications

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): - Update technology and application information developed since the 2007 Guide

- Organize the Guide for easier user interface