



PC57.135

Type of Project: Revision to IEEE Standard C57.135-2011

Project Request Type: Initiation / Revision

PAR Request Date: 28 Apr 2022 PAR Approval Date: 16 Jun 2022 PAR Expiration Date: 31 Dec 2026

PAR Status: Active

Root Project: C57.135-2011

1.1 Project Number: PC57.135 **1.2 Type of Document:** Guide

1.3 Life Cycle: Full Use

2.1 Project Title: Guide for the Application, Specification, and Testing of Phase-Shifting Transformers

Change to Title: IEEE Guide for the Application, Specification, and Testing of Phase-Shifting Transformers

3.1 Working Group: Power Transformers - Phase-Shift Xfrmrs Working Group(PE/TR/PwrTrans-WGC57.135)

3.1.1 Contact Information for Working Group Chair:

Name: Ewald Schweiger

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3.1.2 Contact Information for Working Group Vice Chair:

None

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

3.2.1 Contact Information for Standards Committee Chair:

Name: Ed TeNyenhuis

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3.2.2 Contact Information for Standards Committee Vice Chair:

Name: David Wallach

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3.2.3 Contact Information for Standards Representative:

Name: Stephen Shull

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:

Mar 2026

4.3 Projected Completion Date for Submittal to RevCom: Oct 2026

5.1 Approximate number of people expected to be actively involved in the development of this project: 50

5.2 Scope of proposed standard: This guide covers the application, specification, theory, factory and field testing of liquid-immersed phase-shifting transformers (PSTs). The guide is limited to matters particular to PSTs and does not include matters relating to general power transformers covered in existing standards, recommended practices, or guides.

Change to scope of proposed standard: This guide covers the application, specification, theory—of operation, and factory and field testing of singlephase and three-phase oil_liquid_immersed, phase-shifting transformers (PSTs).—This_The_guide is limited to matters particular to PSTs and does not include matters relating to general requirements for power transformers covered in existing standards, recommended practices, or guides.

5.3 Is the completion of this standard contingent upon the completion of another standard? No **5.4 Purpose:** The purpose of this document is to provide guidance for specifying and designing PSTs, in terms of general aspects of terminology, function, application, theory of operation, protection and design **Change to Purpose:** The terminology, function, application, theory <u>purpose</u> of operation <u>this</u> and <u>document protection, is and to design provide of guidance PSTs for are specifying not and covered designing by PSTs, existing in transformer terms standards of and guides. <u>general Theory aspects of this terminology, document function, is application, to provide guidance theory to of those specifying operation, designing, protection and using PSTs. <u>design</u></u></u>

5.5 Need for the Project: This revision is needed to maintain and provide necessary updates and corrections to this guide for the application, specification, and testing of phase shifting transformers.

Corrections to graphical diagrams and equations will be made. Sections will be amended as needed to provide more detailed information for users of the guide and to improve understanding. The guide will be revised to remove out of scope material or sections covered in other standards or guides.

Change to Need for the Project: This revision is needed to maintain and provide necessary updates and corrections to this guide for the application, specification, and testing of phase shifting transformers. Corrections to graphical diagrams and equations will be made. Sections will be amended as needed to provide more detailed information for users of the guide and to improve understanding. The guide will be revised to remove out of scope material or sections covered in other standards or guides.

5.6 Stakeholders for the Standard: The stakeholders are large power utilities and transformer manufacturers.

6.1 Intellectual Property

- **6.1.1** Is the Standards Committee aware of any copyright permissions needed for this project? No
- **6.1.2** Is the Standards Committee 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 Is it the intent to develop this document jointly with another organization? No

8.1 Additional Explanatory Notes: