

PC57.133

Type of Project: New IEEE Standard
Project Request Type: Initiation / New
PAR Request Date: 14 Mar 2024
PAR Approval Date: 22 May 2024
PAR Expiration Date: 31 Dec 2028
PAR Status: Active

1.1 Project Number: PC57.133
1.2 Type of Document: Guide
1.3 Life Cycle: Full Use

2.1 Project Title: Guide for Evaluating Transformer Performance under Reverse Power Flow

3.1 Working Group: Standards - Working Group on the Guide for Evaluating Transformer Performance under Reverse Power Flow PC57.133(PE/TR/StdS/WG - Reverse Power Guide -PC57.133)

3.1.1 Contact Information for Working Group Chair:

Name: Ryan Hogg
Email Address: rhogg@ieee.org

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: David Wallach
Email Address: david.wallach@ieee.org

3.2.2 Contact Information for Standards Committee Vice Chair:

Name: William Griesacker
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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:
 Nov 2027

4.3 Projected Completion Date for Submittal to RevCom: Oct 2028

5.1 Approximate number of people expected to be actively involved in the development of this project: 100

5.2 Scope of proposed standard: This document provides guidance for the operation and performance evaluation of single- and three- phase transformers subjected to reverse power flow. This guide covers power and distribution transformers, both liquid-filled and dry-type.

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 transformers subjected to reverse power flow. This includes recommendations for specification and operation of new and existing transformers.

5.5 Need for the Project: This guide is needed to provide:

- Guidance for transformers subjected to reverse power flow.
- Information on how harmonic content introduced from downstream sources will affect transformers whose base operating frequency is 50 Hz or 60 Hz.
- Direction on regulation requirements for transformers subjected to reverse power flow.

5.6 Stakeholders for the Standard: Electrical 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: