


# **Transformers Committee Standards Report Summary**

# **Standards Development**

**Monday 15 October, 2018**

# Semi-annual Status Report

- Standards approved
- PARs approved
- Ballot Status
- PARs Status
- Standards Status
- Committee Org Chart



IEEE / PES / TRANSFORMERS COMMITTEE

## Standards Report

**To:** Members of Transformers Committee      **September 28, 2017**  
**From:** Jim Graham, Standards Coordinator

**Executive Summary**  
 This report covers Transformers Committee Standards activity from March 24, 2017 through September 28, 2017. During this time no new Standards, six Revisions, and no Corrigenda were approved by the Standards Board. In this same period, the Standards Board approved no PARs for new standards; four PARs for Revisions; two PAR modifications; no PARs for Corrigenda, and four PAR extensions.

Sixteen (16) standards will expire in 2018, including one standard (C57.136) which does not have an active PAR. Eight (8) standards will expire in 2019.

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Appendix A: Transformers Committee Organization Chart  
 Appendix B: IEEE Standards Association Meeting Schedule - 2018

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**I. Standards approved since Mar 24, 2017**

Approved New Transformer Standards      *None*

Approved Revisions to Transformer Standards      *(All expire 31 Dec 2026)*

<b>PC57.12.20</b>	Standard for Overhead-Type Distribution Transformers 500 kVA and Smaller; High Voltage, 34 500 V and Below; Low Voltage, 7970/13 800V V and Below
<b>PC57.12.36</b>	Standard Requirements for Liquid-Immersed Distribution Substation Transformers
<b>PC57.12.40</b>	Standard for Network, Three-Phase Transformers, 2500 kVA and Smaller; High Voltage, 34 500 GrdY/19 920 and Below; Low Voltage, 600 V and Below; Subway and Vault Types (Liquid Immersed)
<b>PC57.12.58</b>	Guide for Conducting a Transient Voltage Analysis of a Dry-Type Transformer Coil
<b>PC57.140</b>	Guide for Evaluation and reconditioning of Liquid Immersed Power Transformers
<b>P60076-57-129</b>	Standard for General Requirements and Test Code for Oil-Immersed HVDC Converter Transformers

Approved Standards Corrigenda      *None*

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Fall 2017 Standards Report Appendix B

# Standards approved in last 6 months

NOTE: Standards have a life of Ten (10) Years

## NEW Standards approved

- P60076-16** IEC/IEEE International Draft Standard - Power Transformers - Part 16: Transformers for Wind Turbine Application
- PC57.161** Guide for Dielectric Frequency Response Test

# Standards approved in last 6 months

**NOTE:** Standards have a life of Ten (10) Years

## REVISIONS approved

- PC57.109** Guide for Liquid-Immersed Transformers Through-Fault-Current Duration
- PC57.110** Recommended Practice for Establishing Liquid-Immersed and Dry-Type Power and Distribution Transformer Capability When Supplying Nonsinusoidal Load Currents
- PC57.119** Recommended Practice for Performing Temperature Rise Tests on Liquid-Immersed Power Transformers at Loads Beyond Nameplate Ratings

### **Note:**

PC57.119 erroneously was reported as approved in the previous report

# Standards approved in last 6 months

NOTE: Standards have a life of Ten (10) Years

Amendments approved in last 6 months - None  
Corrigenda approved in last 6 months - None

# PARs approved *since Mar 10, 2018*

## Approved PARs for New Standards (expires 31 Dec, 2022)

- PC57.167** Guide for Monitoring Distribution Transformers
- PC57.168** Guide for Low Frequency Dielectric Testing for Distribution, Power and Regulating Transformers
- PC57.12.200** Guide for the Frequency Domain Spectroscopy Measurement of Transformer Bushings (**ENTITY PAR**)

*All PARs have a life of 4 Years*

# PARs approved *since Mar 10, 2018*

## PARs for Revisions (All expire December 2022)

- PC57.12.70** Standard for Standard Terminal Markings and Connections for Distribution and Power Transformers
- PC57.149** Guide for the Application and Interpretation of Frequency Response Analysis for Oil-Immersed Transformers
- PC57.154** Standard for Liquid-Immersed Transformers Designed to Operate at Temperatures Above Conventional Limits Using High-Temperature Insulation Systems
- PC57.98** Guide for Transformer Impulse Tests

*All PARs have a life of 4 Years*

# PARs approved *last 6 months*

PARs for Modification    **None**

*PAR Modifications do not change the PAR expiration date*

PARs for Corrigenda    **None**

PARs for Withdrawal

**PC57.12.70-2011/Corrigendum 1**

Standard Terminal Markings and Connections for Distribution and Power Transformers - Corrigendum 1



# PARs approved *last 6 months*

## PARs for Extension (all expire as noted)

- PC57.13.7** Standard for Current Transformers with a Maximum mA Secondary Current of 250 mA (**Dec 2018**)
- PC57.104** Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers (**December 2018**)
- PC57.161** Guide for the Interpretation of Moisture Related Parameters in Dry, Gas Insulated and Liquid Immersed Transformers and Reactors (**December 2020**)
- PC57.162** Guide for the Electrical Measurement of Partial Discharges in High Voltage Bushings and Instrument Transformers (**December 2019**)

# Expiration Dates

**PARs** have a **four** year life cycle, from the calendar year of Standards Board approval.

A **PAR** approved in January 2018 expires December 31, 2022.

A **PAR** approved in December 2018 expires December 31, 2022.

**Standards** have a ten year life cycle, from the calendar year of Standards Board

*Example:* C57.12.20 Approved 09/28/2017  
Expires 12/31/ 2027

## 2019 Standards Board Submission Deadlines

Standards Board Meeting	Submission Deadline
January 2019 (teleconference)	<b>18 December, 2018</b>
March 2018	<b>08 February, 2019</b>
May 2018 (teleconference)	<b>22 March, 2019</b>
June 2019	<b>23 May, 2019</b>
September 2019 (teleconference)	<b>26 July, 2019</b>
November 2019	<b>17 September, 2019</b>
December 2019	<b>To be determined</b>

**Submission Deadline for the  
last Standards Board meeting in  
2019 is Monday,**

**September 17<sup>th</sup>**

**Note: Our next Committee Meeting is  
March 24-28, 2019**

# Committee Ballot Status

*(refer to page 4 of the standards report)*

**As of 28 September, 2017**

- **1 standard is in pre-ballot**
- **1 standard is in ballot invitation**
- **6 standards are in comment resolution**
- **2 standards are on a RevCom agenda**

# Status - Active PARs

*( refer to page 6 if the standards report)*

51 Active PARS

8 PARs expire December 31, 2018

- Complete - 2
- Draft Development - 1
- In Ballot Invitation - 2
- In Comment Resolution - 2

PAR extensions approved/requested for all the above

- On a RevCom Agenda - 1

# Status - Active PARs

*( refer to page 6 if the standards report)*

**52 Active PARS**

**9 PARs expire December 31, 2019**

- **Draft Development - 4**
- **In Pre-Ballot Invitation - 1**
- **In Sponsor Ballot - 1**
- **In Comment Resolution - 1**
- **On a RevCom Agenda - 1**
- **Complete - 1**

# Status - Active PARs

*( refer to page 6 if the standards report)*

51 Active PARS

22 PARs expire December 31, 2020

- **Draft Development - 21**
- **In Ballot - 0**
- **In Comment Resolution - 1**
-



# Status - Active PARs

*( refer to page 6 if the standards report)*

51 Active PARS

16 PARs expire December 31, 2021

- **Draft Development - 15**
- **In Ballot - 0**
- **In Comment Resolution - 1**

# Status – Standards

*(refer to page 11 of the standards report)*

17 Standards scheduled to expire in 2018

- RevCom approved - 7
- on a RevCom Agenda - 2
- in Comment Resolution - 3
- in Ballot Invitation - 2
- in draft development - 2
- 1 standard will intentionally expire in Dec 2018

# **Status – Standards**

*(refer to page 11 of the standards report)*

## **7 Standards expire in 2019**

- **on a RevCom Agenda - 2**
- **5 standards have active PARs**
- **2 standards have no active PARS**

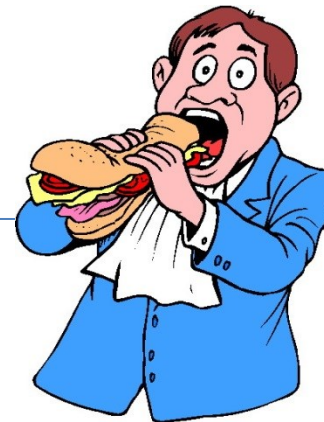
## **12 Standards expire in 2020**

- **7 standards have active PARs**
- **5 standards have no active PARS**

# Standards Luncheon Topics

- I. Data Protection – Malia Zaman
- II. WG Basics: The PAR Process – Jim Graham

□ Q&A - all



# Any Questions?

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