IEEE / PES /TRANSFORMERS COMMITTEE

Standards Report

To: Members of Transformers Committee March 1, 2016

From: William H. Bartley, *RETIRED* Standards Coordinator
and Jim Graham, new Standards Coordinator

Executive Summary

This report covers the Transformers Committee Standards activity for the 5 month period from Nov 1, 2015 to March 1, 2016. In the last 5 months, seven Revisions were approved by the Standards Board. In this same period, the Standards Board approved four PAR Extensions, four PAR modifications, one PAR for a new standard, one PAR for a Revision, and one PAR for a Corrigendum.

In this Report:

I. Standards approved since Nov 1, 2015

REVISIONS to Transformer Standards approved ***(All expire 31 Dec 2025, except for C57.13)***

C57.12.00 Standard for General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers

C57.12.90 Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers

C57.13 IEEE Standard Requirements for Instrument Transformers (expires 31–Dec– 2026)

C57.32 Standard Requirements, Terminology, and Test Procedures for Neutral Grounding Devices

C57.94 Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type Distribution and Power Transformers

C57.106 Guide for Acceptance and Maintenance of Insulating Mineral Oil in Electrical Equipment

C57.139 Guide for Dissolved Gas Analysis in Transformer Load Tap Changers

II. PARs approved since Nov 1, 2015

PAR Extensions approved *(All extended until December 2017)*

PC57.12.24 Standard for Submersible, Three-Phase Transformers, 3750 kVA and Smaller: High Voltage, 34 500 GrdY/19 920 Volts and Below; Low Voltage, 600 Volts and Below

PC57.12.36 Standard Requirements for Liquid-Immersed Distribution Substation Transformers

PC57.19.04 Standard Performance Characteristics and Dimensions for High Current Power Transformer Bushings with Rated Continuous Current in Excess of 5000 A in Bus Enclosures

PC57.156 Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors

PAR Modifcations approved:

PC57.12.39 Standard Requirements for Distribution Transformer Tank Pressure Coordination

PC57.12.70-2011 /Cor 1 Standard Terminal Markings and Connections for Distribution and Power Transformers - Corrigendum 1: Correction of Annex A

PC57.15 Standard Requirements, Terminology, and Test Code for Step-Voltage Regulators

PC57.147 Guide for Acceptance and Maintenance of Natural Ester Insulating Liquid in Transformers

(PAR Modifications do not change the Expiration Date)

New Projects approved: (Approved until December 2020)

PC57.19.02 Standard for the Design and Performance Requirements of Bushings Applied to Liquid Immersed Distribution Transformers

PARs for Corrigenda approved: (Approved until December 2020)

PC57.12.38-2014/Cor 1 Standard for Pad-Mounted-Type, Self-Cooled, Single-Phase Distribution Transformers 250 kVA and Smaller: High Voltage, 34 500 GrdY/19 920 V and Below; Low Voltage, 480/240 V and Below - Corrigendum 1: Correct an omission in the label of Figure 1.

PAR Requests for REVISION of Standards (Approved until December 2020)

PC57.16 Std for Requirements, Terminology, and Test Code for Dry-Type Air-Core Series-Connected Reactors

III. 2016 IEEE Standards Board Meeting Schedule

Starting in 2015, the Standards Board has only three *physical* board meetings per year. But they supplement this with three (3) teleconference meetings. The full list of 2016 meetings is shown in the calendar on the next page.

Deadlines for 2016 Standards Board Submissions:

Standards Board Meeting	Submission Deadline
March 2016	January 22, 2016
May 2016 teleconference	March 22, 2016
June 2016	May 20, 2016
Sept 2016 teleconference	August 5, 2016
December 2016	October 17, 2016

Please Note: Anything that expires at the end of 2016 must be submitted to Standards Board (either NESCOM or REVCOM) by **October 17th**

IV. Transformers Committee Ballot Status *(as of Mar 1, 2016)*

Sub comm	PAR or Standard #	Title	Stage	# of Balloters	Ballot Close Date
Dielectric	PC57.138	Recommended Practice for Routine Impulse Test for Distribution Transformers	Ballot	95	3/11/2016
Dist	PC57.12.20	Standard for Overhead-Type Distribution Transformers 500 kVA and Smaller: High Voltage, 34 500 V and Below; Low Voltage, 7970/13 800Y V and Below	PreBallot	101	
	PC57.12.31-2010-Cor 1	Standard for Pad-Mounted-Type, Self-Cooled, 1-Ph Distribution Transformers ≤250 kVA - Corrigendum 1: Correct an omission in the label of Figure 1.	Comment Resolution	76	2/7/2014
	PC57.12.34	Standard for Requirements for Pad-Mounted,Compartmental Type, Self-Cooled, Three Phase Distribution Transformers, 10 MVA and Smaller	Comment Resolution 1	106	6/7/2015
	PC57.12.36	Standard Requirements for Liquid-Immersed Distribution Substation Transformers	Comment Resolution	142	11/5/2014
Dry Type	PC57.12.59	Guide for Dry-Type Transformer Through-Fault Current Duration	Comment Resolution 1	89	7/16/2015
InsLife	PC57.119	Recommended Practice for Performing Temperature Rise Tests on Oil-Immersed Power Transformers at Loads Beyond Nameplate Ratings	Comment Resolution	112	3/18/2015
Perf Charac	PC57.159	Guide on Transformers for Application in Distributed Photovoltaic (DPV) Power Generation Systems	Comment Resolution 1	129	1/25/2016
Power Transformers	PC57.156	Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors	Comment Resolution 2	118	1/14/2016
	P60076-16	Power Transformers - Part 16: Transformers for Wind Turbine Application	Comment Resolution	151	2/27/2015
UG	PC57.12.24	Standard for Submersible, 3-Phase Transformers, <3750 kVA: High Voltage, 34 500 GrdY/19 920 Volts and Below; Low Voltage, 600 Volts and Below	Comment Resolution	89	11/21/2015

V. Transformer Committee PAR Status *(as of Mar 1, 2016)*

Sub-Comm	PAR Number	Title	Project Type	Approval Date	PAR Expiration
Bushing	PC57.19.01	Standard Performance Characteristics and Dimensions for Outdoor Apparatus Bushings	Revision	12/8/10	12/31/2017
	PC57.19.02	Standard for the Design and Performance Requirements of Bushings Applied to Liquid Immersed Distribution Transformers	New	2/5/16	12/31/2020
	PC57.19.04	Standard Performance Characteristics and Dimensions for High Current Power Transformer Bushings with Current in Excess of 5000 A in Bus Enclosures	New	6/16/11	12/31/2017
Sub Comm	PAR Number	Title	Project Type	Approval Date	PAR Expiration
Dielectric	PC57.127	Guide for the Detection, Location and Interpretation of Sources of Acoustic Emissions in Power Transformers and Power Reactors	Revision	2/16/15	12/31/2019
	PC57.138	Recommended Practice for Routine Impulse Test for Distribution Transformers	Revision	2/5/11	12/31/2016
	PC57.160	Guide for the Electrical Measurement of Partial Discharges in HV Bushings & Instrument Transformers	New	3/6/13	12/31/2017
	PC57.161	Guide for Dielectric Frequency Response Test	New	8/23/13	12/31/2017
Distribution	PC57.12.20	Standard for Overhead-Type Distribution Transformers 500 kVA and Smaller: High Voltage, 34 500 V and Below; Low Voltage, 7970/13 800Y V and Below	Revision	6/82012	12/31/2016
	PC57.12.32	Standard for Submersible Equipment - Enclosure Integrity	Revision	6/11/15	12/31/2019
	PC57.12.36	Standard Requirements for Liquid-Immersed Distribution Substation Transformers	Revision	12/7/11	12/31/2017
	PC57.12.38 /Cor 1	Standard for Pad-Mounted-Type, Self-Cooled, 1-Ph Distribution Transformers ≤250 kVA - Corrigendum 1: Correct an omission in the label of Figure 1.	Corrigendum	2/5/16	12/31/2020
	PC57.15	Standard Requirements, Terminology, and Test Code for Step-Voltage Regulators	Revision	2/5/16	12/31/2018
	PC57.12.39	Standard Requirements for Distribution Transformer Tank Pressure Coordination	New	2/6/16	12/31/2016
Dry Type	PC57.12.51	Standard for Ventilated Dry-Type Power Transformers, >501 kVA - General Requirements	Revision	8/21/14	12/31/2018
	PC57.12.58	Guide for Conducting a Transient Voltage Analysis of a Dry-Type Transformer Coil	Revision	9/3/15	12/31/2019
	PC57.12.60	Std Test Procedure for Thermal Eval of Insulation Systems for Dry-Type Pwr & Distribution Transformers	Revision	6/11/15	12/31/2019
	PC57.16	Std for Requirements, Terminology, and Test Code for Dry-Type Air-Core Series-Connected Reactors	Revision	2/5/16	12/31/2020

Sub-Comm	PAR Number	Title	Project Type	Approval Date	PAR Expiration
HV Conv	P60076-57-129	Converter Transformers for HVDC Applications	Revision	12/10/14	12/31/2018
Insulating Fluid	PC57.104	Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers	Revision	2/5/10	12/31/2017
	PC57.147	Guide for Acceptance and Maintenance of Natural Ester Insulating Liquid in Transformers	Revision	2/5/16	12/31/2016
Insulation Life	P1276	Guide for the Application of High-Temperature Insulation Materials in Liquid-Immersed Distribution, Power and Regulating Transformers	Revision	3/27/14	12/31/2016
	PC57.119	Recommended Practice for Performing Temperature Rise Tests on Oil-Immersed Power Transformers at Loads Beyond Nameplate Ratings	Revision	10/27/14	12/31/2018
	PC57.162	Guide for the Interpretation of Moisture Related Parameters in Dry, Gas Insulated and Liquid Immersed Transformers and Reactors	New	8/23/13	12/31/2017
Instrument	PC57.13.7	Standard for Current Transformers with a Maximum mA Secondary Current of 250 mA	New	9/30/10	12/31/2016
	PC57.13.8	Standard Requirements for Station Service Voltage Transformers	New	12/11/13	12/31/2017
Performance Characteristics	PC57.21	Standard Requirements, Terminology, and Test Code for Shunt Reactors Rated Over 500 kVA	Revision	8/21/14	12/31/2018
	PC57.105	Guide for Application of Transformer Connections in Three-Phase Electrical Systems	Revision	3/26/15	12/31/2019
	PC57.109	Guide for Liquid-Immersed Transformers Through-Fault-Current Duration	Revision	3/26/15	12/31/2019
	PC57.110	Rec Practice for Establishing Liquid-Immersed and Dry-Type Pwr and Distribution Transformer Capability When Supplying Nonsinusoidal Load Currents	Revision	6/12/14	12/31/2018
	PC57.120	Guide for Loss Evaluation of Distribution and Power Transformers and Reactors	Revision	3/25/10	12/31/2016
	PC57.158	Guide for the Application of Tertiary and Stabilizing Windings in Power Transformers	New	5/15/12	12/31/2016
	PC57.159	Guide on Transformers for Application in Distributed Photovoltaic (DPV) Power Generation Systems	New	6/8/12	12/31/2016

Power Transformers	P60076-16	Power Transformers - Part 16: Transformers for Wind Turbine Application	New	12/10/14	12/31/2016
	P60076-57-1202	Standard Requirements for Liquid Immersed Phase-Shifting Transformers	New	6/82012	12/31/2016
	P60214-2	Tap-Changers - Part 2: Application Guide	New	6/12/14	12/31/2018
	PC57.12.10	Standard Requirements for Liquid-Immersed Power Transformers	Revision	3/26/15	12/31/2019
	PC57.93	Guide for Installation and Maintenance of Liquid-Immersed Power Transformers	Revision	3/29/12	12/31/2016
	PC57.140	Guide for Evaluation and Reconditioning of Liquid Immersed Power Transformers	Revision	3/31/11	12/31/2017
	PC57.156	Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors	New	6/16/11	12/31/2017
Standards	PC57.12.70/Cor 1	Standard Terminal Markings and Connections for Distribution and Power Transformers - Corrigendum 1: Correction of Annex A	Corrigendum	2/5/16	12/31/2019
UG Transformers	PC57.12.23	Standard for Submersible Single-Phase Transformers: 250 kVA and Smaller; High Voltage 34 500GrdY/19 920V and Below; Low Voltage 600 V and Below	Revision	8/21/14	12/31/2018
	PC57.12.24	Standard for Submersible, 3-Phase Transformers, <3750 kVA: High Voltage, 34 500 GrdY/19 920 Volts and Below; Low Voltage, 600 Volts and Below	Revision	11/9/11	12/31/2017
	PC57.12.40	Standard for Network, 3-Phase Transformers, <2500 kVA; Subway and Vault Types (Liquid Immersed)	Revision	8/30/12	12/31/2016
	PC57.12.44	Standard Requirements for Secondary Network Protectors	Revision	3/26/15	12/31/2019

STANDARD / PROJECT	TITLE	Working Group Chair / Phone / Email	Pub Year / Rev Due Dat	PAR Issue Dat / PAR Expiration	Standard Status / Remark
SubCommittee **BUSHING**		(417) 345-5926			
Chair **Zhao P.**		peter.zhao@HydroOne.com			
PC57.19.04	Standard Performance Characteristics and Dimensions for High Current Power Transformer Bushings	Digby S. (919) 734-8900 scott.digby@waukeshaelectric.spx.com		06/16/2011 **12/31/2015**	New Project PAR Extension Requested /on December Agenda
65700-19-03	Standard Requirements, Terminology, and Test Code for Bushing for DC Applications	Recksiedler 204 474 3192	2014 **12/31/2024**		Approved IEEE /IEC Dual Logo Approved by SASB in June 2014
C57.19.00	Standard General Requirements and Test Procedure for Power Apparatus Bushings	Ellis K. P. (615) 847-2157 keithcota@aol.com	2004 **12/08/2020**		Approved Formally Std. IEEE 21 Previous revision 1991. Errata issued March 2010 Reaffirmation approved 12/8/2010
C57.19.01 PC57.19.01	IEEE Standard Performance Characteristics and Dimensions for Outdoor Apparatus Bushings	Zhang S. 585 768 1273 shibao.zhang@ieee.org	2000 **12/31/2018**	12/08/2010 **12/31/2017**	Approved +PAR for Revision Formally Std. IEEE 24 Reaffirmed in 2005. PAR for Rev first approved Dec 2010 Mar '10: NesCom extended PAR, unitl December 2013 PAR Extension until 2017 approved in March 2014
C57.19.100	IEEE Guide for Application of Power Apparatus Bushings	Spitzer T. (817) 215-6457 t.spitzer@sbcglobal.net	1995 **12/31/2022**		Approved New PAR requested and approved to 12/31/2010. NESCOM approved Extension till Dec 2012 Revision approved Dec 2012

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SubCommittee Chair **DIELECTRIC TESTS** **Franchek M. A.**		(802) 751-3539 michael.franchek@wicor.com			
PC57.160	Guide for PD Meas in HV Bushings & Inst Transformers	Hochanh T. (450) 652-8505 hochanh@ireq.ca		03/06/2013 **12/31/2017**	New Project T. Hochanh appointed as new WG Chair, Oct 2014
PC57.161	Guide for DFR Measurements	Naderian A. a.naderian@gmail.com		08/22/2013 **12/31/2017**	New project
C57.113	IEEE Guide for Partial Discharge Measurement in Liquid-Filled Power Transformers and Shunt Reactors	Poulin B. (450) 652-2901 bertrand.f.poulin@ca.abb.com	1991 **06/17/2020**		Approved std Revision approved June 2010
C57.127 **PC57.127**	IEEE Guide for the Detection of Acoustic Emissions from Partial Discharges in Oil-Immersed Power Transformers	Gross gross@pdix.com	2007 **12/31/2018**	02/16/2015 **12/31/2019**	Approved +PAR for revision PAR for revision approved Feb 2015
C57.138 **PC57.138**	IEEE Recommended Practice for Routine Impulse Test for Distribution Transformers	Molden A. (845) 225-0993 a.molden@ieee.org	1998 **12/31/2018**	02/02/2011 **12/31/2016**	Approved - Reaffirmed in June '05 Reaffirmation approved by RevCom on 6/8/05. Dec '10: Nescom approved new PAR until Dec31 2015 PAR Extension approved Oct 2015 for one additional year
C57.98	IEEE Guide for Transformer Impulse Tests	Molden A. (845) 225-0993 a.molden@ieee.org	1994 **12/31/2021**		Approved -

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SubCommittee Chair	**DISTRIBUTION TRANSFORMERS** **Shull S.**	(417) 625-6110 sshull@empiredistrict.com			
PC57.12.33	Guide for Distribution Transformer Loss Evaluation	Pekarek T. J. (330) 761-7800 tjpekarek@firstenergycorp.com			PAR WITHDRAWN - Inactive WG Decision made at Las Vegas Meeting to discontinue this activity.
PC57.12.39	Standard Requirements for Distribution Transformer Tank Pressure Coordination	Gaytan C. (52) 818 03022 133 carlos.gaytan.cavazos@indsys.ge.com		02/06/2012 **12/31/2016**	New Project
C57.12.20 PC57.12.20	Standard for Overhead Type Distribution Transformers, 500 kVA and Smaller, High-Voltage 34 500 Volts and Below; Low-Voltage, 7970/13 800 Y Volts and Below	Traut A. 706-548-3121 atraut@ieee.org	2011 **06/16/2021**	06/08/2012 **12/31/2016**	Approved Standard with approved PAR for Revision PAR for Revision approved June 2012
C57.12.28	Standard for Pad Mounted Equipment - Enclosure Integrity	Olen R. 414-837-8365 robertcolen3@eaton.com	2014 **12/31/2024**		Approved Previously NEMA/ANSI C57.12.28-1999
C57.12.29	Standard for Pad Mounted Equipment - Enclosure Integrity for Coastal Environments	Olen R. 414-837-8365 robertcolen3@eaton.com	2014 **12/31/2024**		Approved Previously NEMA/ANSI C57.12.29-1991
C57.12.30	Std for Pole-Mounted Eqpt - Enclosures for Coastal Environment	Olen R. 414-837-8365 robertcolen3@eaton.com	**06/17/2020**		Approved new standard new standard approved June 2010
C57.12.31	IEEE Standard for Pole Mounted Equipment - Enclosure Integrity	Olen R. 414-837-8365 robertcolen3@eaton.com	2002 **12/31/2024**		Approved
C57.12.32 PC57.12.32	Standard for Submersible Equipment - Enclosure Integrity	Mulkey D. H. (415) 973-4699 dhmulkey@ieee.org	2002 **12/31/2018**	06/03/2015 **12/31/2019**	Approved + Active PAR for Revision Published 3/7/2003. Reaffirmation approved Mar 2008 PAR for Revision approved June 2015
C57.12.34	Requirements for Pad-Mounted, 3-Phase DistributionTransformers, <2500 kVA HV <34 500 LV <480 Volts	Shull S. (417) 625-6110 sshull@empiredistrict.com	**12/09/2025**		Approved Originally Std. 1447, Combined C57.22-1980 & C57.12.26-1992 Revised Standard approved Dec09 Mar '11: Nescom approved new PAR for Revision Revision approved Sept 2015
C57.12.35	IEEE Standard for Bar Coding for Distribution Transformers	Matthews P (601) 422-1533 lmatthews@howard-ind.com	2007 **12/31/2023**		Approved Formally P1265. Revision approved December 2013
C57.12.36 PC57.12.36	Standard Requirements for Liquid-Immersed Distribution Substation Transformers	Murphy J.R. (407) 824-4194 jerry.murphy@ieee.org	2007 **12/31/2018**	12/07/2011 **12/31/2015**	Approved std and approved PAR for Revision approved by SA Board on 9/27/2007 PAR for Revision approved Dec '11 PAR Extension requested

STANDARD / PROJECT	TITLE	Working Group Chair / Phone / Email	Pub Year / Rev Due Dat	PAR Issue Dat / PAR Expiration	Standard Status / Remark
SubCommittee Chair **DISTRIBUTION TRANSFORMERS** **Shull S.**		(417) 625-6110 sshull@empiredistrict.com			
C57.12.37	IEEE Standard for the Electronic Reporting of Transformer Test Data	Callsen T. 847 398 4510 t.callsen@weldy-lamont.com	2006 **12/31/2025**		Approved Formally C57.132, IEEE Std 1388-2000 D11d approved by SA Board on 3/30/2006. Published 7/21/2006. New PAR for Revision approved Dec'11 Revision approved Sept 3 2015
C57.12.38 **PC57.12.38**	Standard for Pad-Mounted, Single-Phase Distribution Transformers, <167kVA, HV <34500 LV 240/120 Volts	Ghafourian A. A. ashhar.ghafourian@gmail.com	2014 **12/31/2024**	10/19/2015 **12/31/2019**	Approved + Active PAR for Revision This std replaces C57.12.21 & C57.12.25
C57.15 **PC57.15**	IEEE Standard Requirements, Terminology, and Test Code for Step-Voltage Regulators	Colopy C. A. (262) 896-2342 ccolopy@cooperpower.com	1999 **09/11/2019**	03/27/2014 **12/31/2018**	Approved Also known as 60076-21-2011 PAR for Revision approved March 2014 PAR Modification approved June 2014

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SubCommittee **DRY TYPE TRANSFORMERS** Chair **Johnson, Jr. C. W.**		(276) 688-1512 charles.w.johnson@us.abb.com			
C57.12.01	IEEE Standard General Requirements for Dry-Type Distribution and Power Transformers Including Those with Solid Cast and/or Resin Encapsulated Windings	Holdway T. 423 677 7141 tholdway@ie-corp.com	2015 **12/31/2025**		Approved 1998 version was approved in 2005 /Published 2006 PAR for Revision approved Dec 09. Revision approved by SASB Feb 2015
C57.12.51 PC57.12.51	Ventilated Dry-Type Power Transformers, 501 kVA and Large, Three-Phase, with High-Voltage 601 to 34500 Volts; Low-Voltage 208Y/120 to 4160 Volts - General Requirements	Som S.K. 724 472 7809 sanjib.som@siemens.com	 **12/31/2018**	08/21/2014 **12/31/2018**	Approved + Active PAR for Revision Previously NEMA document C57.12.51, original publication by NEMA in 1981, Reaffirmed in 1998. This document was transferred to IEEE in Dec., 2002. Approved by SA Sept 2008. PAR for Revision approved Aug 2014
C57.12.52	Standard Requirements for Sealed Dry-Type Power Transformers, 501 kVA and Larger, Three-Phase, with High-Voltage 601 to 34 500 Volts, Low-Voltage 208Y/120 to 4160 Volts	Kennedy S. P. (716) 896-6500 skennedy@niagaratransformer.com	1981 **12/31/2022**		Approved Previously ANSI C57.12.52-1981 SA approved Dec 2012
C57.12.58 PC57.12.58	IEEE Guide for Conducting a Transient Voltage Analysis of a Dry-Type Transformer Coil	Wicks R. C. (804) 383-3300 roger.c.wicks@usa.dupont.com	1991 **12/31/2018**	09/03/2015 **12/31/2019**	Approved - Active, and PAR approved Reaffirmed Sept 2008 PAR approved for Revision Sept 2015
C57.12.59	IEEE Guide for Dry-Type Transformer Through-Fault Current Duration	Powell P. A. (202) 388-2335 papayne@ieee.org	2001 **12/31/2025**		Approved Reaffirmation approved in 12/5/2006. PAR for Revision and approved Dec'11 PAR Modification (changing Scope) approved Dec 2014 Revision Approved Sept 3 2015
C57.12.60 PC57.12.60	IEEE Guide for Test Procedures for Thermal Evaluation of Insulation Systems for Solid Cast and Resin-Encapsulated Power and Distribution Transformers	Ballard R.C 804 383 2364 robert.casey.ballard@dupont.com	1998 **11/09/2019**	06/03/2015 **12/31/2019**	Approved with Corrigenda + Active PAR for Revision IEEE Std C57.12.56-1986 and IEEE Std C57.12.60-1998 merged together in 2009 Corrigenda 1 approved by SA June 2013
C57.12.91	IEEE Standard Test Code for Dry-Type Distribution and Power Transformers	Foster D. R. (815) 678-2421 dfoster@olsun.com	2001 **12/31/2021**		Approved
C57.124	IEEE Recommended Practice for the Detection of Partial Discharge and the Measurement of Apparent Charge in Dry-Type Transformers	Johnson, Jr. C. W. (276) 688-1512 charles.w.johnson@us.abb.com	1991 **12/09/2019**		Approved Reaffirmed Dec09
C57.134	IEEE Guide for Determination of Hottest Spot Temperature in Dry Type Transformers	Powell P. A. (202) 388-2335 papayne@ieee.org	2000 **12/31/2023**		Approved Reaffirmation approved 3/30/2006 PAR for Revision approved Dec'11 Std apprroved by SASB Dec 11 2013
C57.16 PC57.16	IEEE Standard Requirements, Terminology, and Test Code for Dry-Type Air- Core Series-Connected Reactors	Dudley R. F. (416) 298-8108 richardd@ca.trenchgroup.com	1996 **12/31/2021**		Approved Revision approved by Std Bd Sept 2011

STANDARD / PROJECT	TITLE	Working Group Chair / Phone / Email	Pub Year / Rev Due Dat	PAR Issue Dat / PAR Expiration	Standard Status / Remark
SubCommittee **DRY TYPE TRANSFORMERS**		(276) 688-1512			
Chair **Johnson, Jr. C. W.**		charles.w.johnson@us.abb.com			
C57.94 PC57.94	IEEE Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type General Purpose Distribution and Power Transformers	Stankes S (603) 545-3026	1982 **12/31/2018**	12/09/2011 **12/31/2015**	Approved Reaffirmation approved by the SA Board on 12/6/2006 PAR for Revision approved Dec'11 Std Submitted to Revcom and on Dec. Agenda
C57.96 PC57.96	IEEE Guide for Loading Dry Type Distribution and Power Transformers	Marek R. P. (804) 383-2376 Richard.P.Marek@usa.dupont.com	1999 **12/31/2023**		Approved - Active RevCom approved reaffirmation on 9/22/2004 Previous revision in 1994. PAR for Revision approved Dec 2009 Ballot completed and on Dec2013 Revcom agenda. Approved by SASB Dec11 2013
IEEE 259	IEEE Standard Test Procedure for Evaluation of Systems of Insulation for Dry-Type Specialty and General-Purpose Transformers	Stankes S (603) 545-3026	1999 **03/25/2020**		Approved 9/22/04 - RevCom approved reaffirmation Reaffirmed March 2010
SubCommittee **HVDC CON TX & SMRs**		416-298-8108			
Chair **Sharp M.**		mikes@ca.trenchgroup.com			
C57.129 PC57.129	IEEE General Requirements and Test Code for Oil Immersed HVDC Converter Transformers	Radbrandt ulf.radbrandt@se.abb.com	2007 **12/31/2018**	12/10/2014 **12/31/2018**	Approved + New PAR for Revision Trial use std published 6/6/2000; upgraded to full use 3/2002 Approved by SA Board 9/27/2007
IEEE 1277	IEEE General Requirements and Test Code for Dry-Type and Oil-Immersed Smoothing Reactors for DC Power Transmission	Dudley R. F. (416) 298-8108 richardd@ca.trenchgroup.com	2000 **12/31/2020**		Approved. Ballot approved March 2010

STANDARD PROJECT	TITLE	Working Group Chair Phone Email	Pub Year Rev Due Dat	PAR Issue Dat PAR Expiration	Standard Status Remark
SubCommittee Chair	**INSTRUMENT TRANSFORMERS** **McTaggart R.**	(416) 751-8570 rossdm@ca.trenchgroup.com			
PC57.13.7	Standard for Instrument Transformer with max output of 250ma	Alton		09/30/2010 **12/31/2016**	New Project New project approved by NESCOM Sept 2010 PAR Extension approved Dec 14 until 2016
PC57.13.8	Standard Requirements for Station Service Voltage Transformers	Wallace david.wallace@us.abb.com		12/11/2013 **12/31/2017**	Active PAR
PC57.13.8	Standard Requirements for Station Service VTs	Wallace david.wallace@us.abb.com		12/11/2013 **12/31/2017**	New Project PAR approved Dec13 SB
C57.13 PC57.13	IEEE Standard Requirements for Instrument Transformers	McTaggart R. (416) 751-8570 rossdm@ca.trenchgroup.com	2008 **12/31/2018**	09/30/2010 **12/31/2016**	Approved - Active PAR for Corrigenda PAR for Corrigenda withdrawn Dec 2014 PAR to Extension approved Dec 2014 until 2016
C57.13.2	Conformance Test Procedure for Instrument Transformers	Smith J. E. (601) 346-9104 jes1@ieee.org	2005 **06/17/2020**		Approved PAR to Revise Std C57.13.2-1991; harmonize with C57.13-1993 D4 approved by RevCom on 6/8/2005; Published 9/29/2005. Reaffirmed 6/17/2010
C57.13.5 PC57.13.5	Standard of Performance and Test Requirements for Instrument Transformers of a Nominal System Voltage of 115 kV and Above	Riffon P. (514) 840-3000 x3424 riffon.pierre@hydro.qc.ca	2006 **09/11/2019**		Approved Reference Std. 1400 Previously C57.13.5 was a trial use Upgraded to Full Use 3/30/2006
C57.13.6	Standard for High Accuracy Instrument Transformers	Smith J. E. (601) 346-9104 jes1@ieee.org	**06/17/2020**		Approved Document published in 12/9/2005 Reaffiremed 2010

STANDARD / PROJECT	TITLE	Working Group Chair / Phone / Email	Pub Year / Rev Due Dat	PAR Issue Dat / PAR Expiration	Standard Status / Remark
SubCommittee **INSULATING FLUIDS**		(980) 373-4167			
Chair **Wallach D.J.**		david.wallach@duke-energy.com			
C57.104 PC57.104	IEEE Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers	Ladroga R. K. 978 410 5507 richard.ladroga@rmiengineers.com	1991 **12/31/2018**	01/09/2010 **12/31/2017**	Active + New PAR for Revision Original PAR and document withdrawn in Dec. 2005. New PAR approved Jan 2010 PAR Extension approved Dec-14 until 2017
C57.106 PC57.106	IEEE Guide for Acceptance and Maintenance of Insulating Oil in Equipment	Rasor B. Bob.Rasor@sdmyers.com	2006 **12/31/2018**	11/09/2011 **12/07/2015**	Approved Standard PAR for Revision approved Dec'11 Std Submitted to Revcom and on Dec '15 Agenda
C57.111	IEEE Guide for Acceptance of Silicone Insulating Fluid and Its Maintenance in Transformers	Boman P.E. (785)256-7161 paul_boman@hsb.com	1983 **03/19/2019**		Approved
C57.121	IEEE Guide for Acceptance and Maintenance of Less-Flammable Hydrocarbon Fluid in Transformers	Sundin 903 231 3141 dsundin@svbchemicals.com	1998 **12/09/2019**		Approved Was to be administratively withdrawn in Dec., 2004 Reaffirmation ballot pool invitation initiated in October, 2005. Reaffirmed Dec 2009
C57.130	Guide for the Use of Dissolved Gas Analysis During Factory Temeprature Rise Tests for the Evaluation of Oil-Immersed Transformers and Reactors	Thompson J. A. 605-534-3571 serve1@svtv.com	2015 **12/31/2025**		Approved New PAR approved June 2010 - currently under ballot resolution Standard Approved October 2015
C57.139	Guide for Dissolved Gas Analysis in Transformer Load Tap Changers	Wallach D.J. (980) 373-4167 david.wallach@duke-energy.com	2010 **12/08/2020**		Approved PC57.139 was approved as a new standard by IEEE-SA Dec 8, 2010 PAR for revision approved June 2011 Standard submitted to Revcom and on Dec '15 Agenda
C57.146	Guide for Interpretation of Gasses Generated in Silicone-Immersed Transformers	Murphy J.R. (407) 824-4194 jerry.murphy@ieee.org	2005 **06/16/2021**		Approved Reaff approved 16-June-11.
C57.147 PC57.147	Guide for Acceptance and Maintenance of Natural Ester Fluids in Transformers	McShane C. P. 262 366 1091 patrick_mcshane@cargill.com	 **12/31/2018**	02/06/2012 **12/31/2016**	Active with active PAR for Revision New Standard approved May 2008
C57.155	DGA Guide for Esters filled Transformers	Boman P.E. (785)256-7161 paul_boman@hsb.com	 **12/31/2024**		Approved PAR approved by NESCOM - March-2010 Approved by SASB Nov 2014
C57.637	IEEE Guide for the Reclamation of Insulating Oil and Criteria for Its Use	Thompson J. A. 605-534-3571 serve1@svtv.com	1985 **12/31/2018**		Approved Reaffirmation approved by SA Board 9/27/2007 PAR for Revision approved Dec 2008 PAR extension approved June 2012, until Dec 2014 Another Extension granted until Dec 2015

STANDARD PROJECT	TITLE	Working Group Chair Phone Email	Pub Year Rev Due Dat	PAR Issue Dat PAR Expiration	Standard Status Remark
SubCommittee **INSULATION LIFE** Chair **Kennedy S. P.**		(716) 896-6500 skennedy@niagaratransformer.com			
PC57.145	Guide for the Definition of Thermal Duplicate Liquid-Immersed Distribution, Power, and Regulating Transformers	Beaster B. L. (601) 422-1302 blbeaster@ieee.org	0		PAR WITHDRAWN Dec 2004 Previously P1524 Modified PAR to expire in 2004 PAR administratively withdrawn in December, 2004
PC57.162	Guide for Interpretation of Moisture in Transformers	Prevost T. A. 781-672-6219 tprevost@ieee.org		08/23/2013 12/31/2017	New Project
C57.100	IEEE Standard Test Procedure for Thermal Evaluation of Liquid-Immersed Distribution and Power Transformers	Wicks R. C. (804) 383-3300 roger.c.wicks@usa.dupont.com	1999 12/31/2021		Approved Standard Requested PAR for revision on 10/18/2004. 1st Ballot -2010; 1st Recirc Sept 2011; 2nd Recirc closed 20-Oct'2011 APPROVED Dec 2011
C57.119 PC57.119	IEEE Recommended Practice for Performing Temperature Rise Tests on Oil Immersed Power Transformers at Loads Beyond Nameplate Ratings	Kennedy G. R. (402) 362-7317 grkennedy@ieee.org	2001 12/31/2018		Approved Previously IEEE 838. Published 3/12/2002. Reaffirmed Mar 2008 PAR for Revision is on Oct 9 Agenda
C57.154	Design, Testing and App of Liquid-Immersed Transformers with High-Temp Insulation	Marek R. P. (804) 383-2376 Richard.P.Marek@usa.dupont.com	2012 12/31/2022		New Standard PAR for new standard approved March 2009 Standard Bd approved Aug 30, 2012
C57.91	IEEE Guide for Loading Mineral-Oil-Immersed Transformers	Duckett D. A. (407) 942-9401 don.duckett@pgnmail.com	1995 12/31/2021		Approved Combined from C57.91-1981 & C57.92-1981 & C57.115-1991
IEEE 1276 P1276	IEEE Guide for the Application of High-Temperature Insulation Materials in Liquid-Immersed Power Transformers	Wicks R. C. (804) 383-3300 roger.c.wicks@usa.dupont.com	1997 12/31/2018	02/06/2012 12/31/2016	Approved with active PAR for Revision Reaffirmation approved by SA Board in 3/30/2006 PAR for Revision approved by Std Bd Feb 2012 PAR Mod approved Mar 2014
IEEE 1538 P1538a	IEEE Guide for Determination of Maximum Winding Temperature Rise in Liquid Filled Transformer	Marek R. P. (804) 383-2376 Richard.P.Marek@usa.dupont.com	2000 12/31/2021	06/12/2014 12/31/2018	Approved with Amendment PAR for Amendment approved June 2014 Amendment approved Sept 3, 2015

STANDARD / PROJECT	TITLE	Working Group Chair / Phone / Email	Pub Year / Rev Due Dat	PAR Issue Dat / PAR Expiration	Standard Status / Remark
SubCommittee Chair	**PERFORMANCE CHARACTERISTICS** **TeNyenhuis E.G.**	(519) 837-4691 ed.g.tenyenhuis@ca.abb.com			
P60076-16	Standard Requirements for Wind Turbine Generator Transformers	Buckmaster D.E. 980-321-8381 david.buckmaster@shawgrp.com		06/08/2012 **12/31/2016**	Approved PAR PAR approved June 2012 /This is an IEC Joint development PAR Modification approved Dec 2014
PC57.133	Guide for Short-Circuit Testing of Distribution and Power Transformers	Fortin M. 450-922-0925 fortin.marcel@ieee.org			PAR WITHDRAWN This PAR was withdrawn by consensus of PCSC. Proposed contents are reportedly addressed in C57.12.90.
PC57.158	Guide for the Application of Tertiary and Stabilizing Windings in Power Transformers	Betancourt E. (52-80)-30-2135 enrique.betancourt.ramirez@indsys.ge.c		05/15/2012 **12/31/2016**	Approved PAR
PC57.159	Guide for Application in Distributed Photovoltaic (DPV) Transformers in Power Generation Systems	Shertukde H.M. (860) 768-4847 shertukde@mail.hartford.edu		06/08/2012 **12/31/2016**	Approved PAR
C57.105 PC57.105	IEEE Guide for Application of Transformer Connections in Three-Phase Distribution Systems	Bromley A. 970 221 6673 abromley@fcgov.com	1978 **12/31/2018**	03/26/2015 **12/31/2019**	Approved Was to be administratively withdrawn in 2004, but extended to 2006. Reaffirmed 2008 2014 - New TF formed for Revision of 105 PAR approved Mar 2015
C57.109 PC57.109	IEEE Guide for Liquid-Immersed Transformers Through-Fault-Current Duration	Mehrota V. (262) 547 0121 x1353 Vinay.Mehrotra@spx.com	1993 **12/31/2018**	03/26/2015 **12/31/2019**	Approved Reaffirmed Mar 2008 2014: New TF formed for Revision of 109 PAR approved Mar 2015
C57.110 PC57.110	IEEE Recommended Practice for Establishing Transformer Capability When Supplying Nonsinusoidal Load Currents	Marek R. P. (804) 383-2376 Richard.P.Marek@usa.dupont.com	2008 **12/31/2018**	06/12/2014 **12/31/2018**	Approved Approved by SA Mar 2008 PAR for Revision approved June 2014
C57.120 PC57.120	IEEE Loss Evaluation Guide for Power Transformers and Reactors	Traut A. 706-548-3121 atraut@ieee.org	1991 **12/31/2018**	03/24/2010 **12/31/2016**	Approved - revision in progress Reaffirmation approved by RevCom 6/8/2006. PAR for Revision submitted 2010 to merge C57.120 & C57.12.33 PAR extended until 2016 by SASB, in June 2014
C57.123	IEEE Guide for Transformer Loss Measurement	TeNyenhuis E.G. (519) 837-4691 ed.g.tenyenhuis@ca.abb.com	2002 **06/17/2020**		Approved std Ref Std. IEEE 1098 Revision approved June 2010
C57.136	IEEE Guide for Sound Level Abatement and Determination for Liquid- Immersed Power Transformers and Shunt Reactors Rated Over 500 kVA	Antosz S. (412) 498-3916 santosz@comcast.net	2000 **12/31/2018**		Approved PAR for Revision approved by NESCOM Sept 2010 PAR for Revision was Withdrawn in December 2014
C57.142 PC57.142	A Guide To Describe The Occurrence And Mitigation Of Switching Transients Induced By Transformer-Breaker Interaction	Degeneff R. C. (518) 276-6367 degenr@rpi.edu	2010 **12/08/2020**		Approved PC57.142 was approved as a new standard on December 8, 2010

STANDARD PROJECT	TITLE	Working Group Chair Phone Email	Pub Year Rev Due Dat	PAR Issue Dat PAR Expiration	Standard Status Remark
SubCommittee Chair	**PERFORMANCE CHARACTERISTICS** **TeNyenhuis E.G.**	(519) 837-4691 ed.g.tenyenhuis@ca.abb.com			
c57.149	Guide for the Application and Interpretation of Frequency Response Analysis for Oil Immersed Transformers	Sweetser C.L. (781) 672-6214 <charles.sweetser@omicronusa.com>	2012 **12/31/2022**		APPROVED
C57.18.10	IEEE Standard Practices and Requirements for Semiconductor Power Rectifier Transformers	Kennedy S. P. (716) 896-6500 skennedy@niagaratransformer.com	1998 **01/30/2019**		Approved Replaced the C57.18-1964 for pool cathode mercury-arc rectifiers. Amendment 1: Technical and Editorial Corrections was approved 3/27/08 Reaffirmed March 2009
C57.21 PC57.21	IEEE Standard Requirements, Terminology, and Test Code for Shunt Reactors Rated Over 500 kVA	Som S.K. 724 472 7809 sanjib.som@siemens.com	1990 **12/31/2018**	08/21/2014 **12/31/2018**	Approved + Active PAR for Revision Reaffirmation approved on 6/23/2004. Revised Std approved Mar 2008 PAR approved Aug 2014
C57.32	IEEE Standard Requirements, Terminology, and Testing Procedures for Neutral Grounding Devices	Kennedy S. P. (716) 896-6500 skennedy@niagaratransformer.com	1972 **12/31/2018**		Approved - Active PAR to revise std Dec. 2002 - Sponsor changed from PES/SPD to PES/TR; PAR Modified and extended to Dec 2011; PAR stalled Oct'11, without a ballot. PAR withdrawn & New PAR submitted Oct'11, approved by Stds Bd Dec '11 Standard submitted to Revcom and on Dec '15 Agenda

STANDARD / PROJECT	TITLE	Working Group Chair / Phone / Email	Pub Year / Rev Due Dat	PAR Issue Dat / PAR Expiration	Standard Status / Remark
SubCommittee **POWER TRANSFORMERS**		561 371 9138			
Chair **Watson J.D.**		joe_watson@ieee.org			
P60076-57-1	Standard Requirements for Phase Shifting Transformers	Ahuja R. K. (408) 957-8348 raj.ahuja@waukeshaelectric.spx.com		06/08/2012 **12/31/2016**	Approved PAR PAR approved June 2012 This is an IEC Joint development
P60214-2	Tap Changers- Part 2: Application Guide	Colopy C. A. (262) 896-2342 ccolopy@cooperpower.com		06/12/2014 **12/31/2018**	New PAR
PC57.156	Guide to Tank Rupture Mitigation	Zhao P. (417) 345-5926 peter.zhao@HydroOne.com		06/16/2011 **12/31/2015**	New Project PAR Extension requested /on Dec '15 Agenda
C57.116	IEEE Guide for Transformers Directly Connected to Generators	Hoffman G. (973) 621-6600 grhoffman@advpowertech.com	2014 **12/31/2024**		Approved Std approved by SASB Mar 2014
C57.117	IEEE Guide for Reporting Failure Data for Power Transformers and Shunt Reactors on Electric Utility Power Systems	Binder, Jr. W. B. (724) 654-3839 wbbinder@aol.com	1986 **12/31/2018**		Withdrawn Previously IEEE 786-1986, original approval date 6/19/1986. Oct 2010 decision to merge with C57.125. This standard is still Active because of PAR for revison of C57.125. This will be withdrawn when Revision of C57.125 is approved.
C57.12.10 **PC57.12.10**	Standard Requirements for Liquid-Immersed Power Transformers	Hoffman G. (973) 621-6600 grhoffman@advpowertech.com	1997 **09/30/2020**	03/26/2015 **12/31/2019**	Approved with PAR for revision Formally NEMA/ANSI document. Corrigenda 1 approved December 2012 PAR for Corrigenda 2 approved June 2013 Corrigenda 2 approved by SASB Oct 2013
C57.125	IEEE Guide for Failure Investigation, Documentation, and Analysis for Power Transformers and Shunt Reactors	Binder, Jr. W. B. (724) 654-3839 wbbinder@aol.com	1991 **12/31/2025**		Approved Oct'10: decision to merge with C57.117. Feb'11: NESCOM approved new PAR to merge 117 and 125. Standard approved Sept 2015
C57.131	IEEE Standard Requirements for Load Tap Changers		1995 **12/31/2022**		Approved Standard PAR Modified Dec 09 and extended to Dec 2010. Dec '10: Nescom & Revcom extend untul Dec31 2011 1st Ballot closed May'11; 1st Recirc closed 21-Oct; Std was approved Mar 2012
C57.135	IEEE Guide for the Application, Specification and Testing of Phase- Shifting Transformers	Sim H. J. (919) 580-3234 jin.sim@ieee.org	2001 **06/16/2021**		Approved Approved for IEEE/IEC Dual Logo Dec. 2005 - IEC 62032 Ed. 1

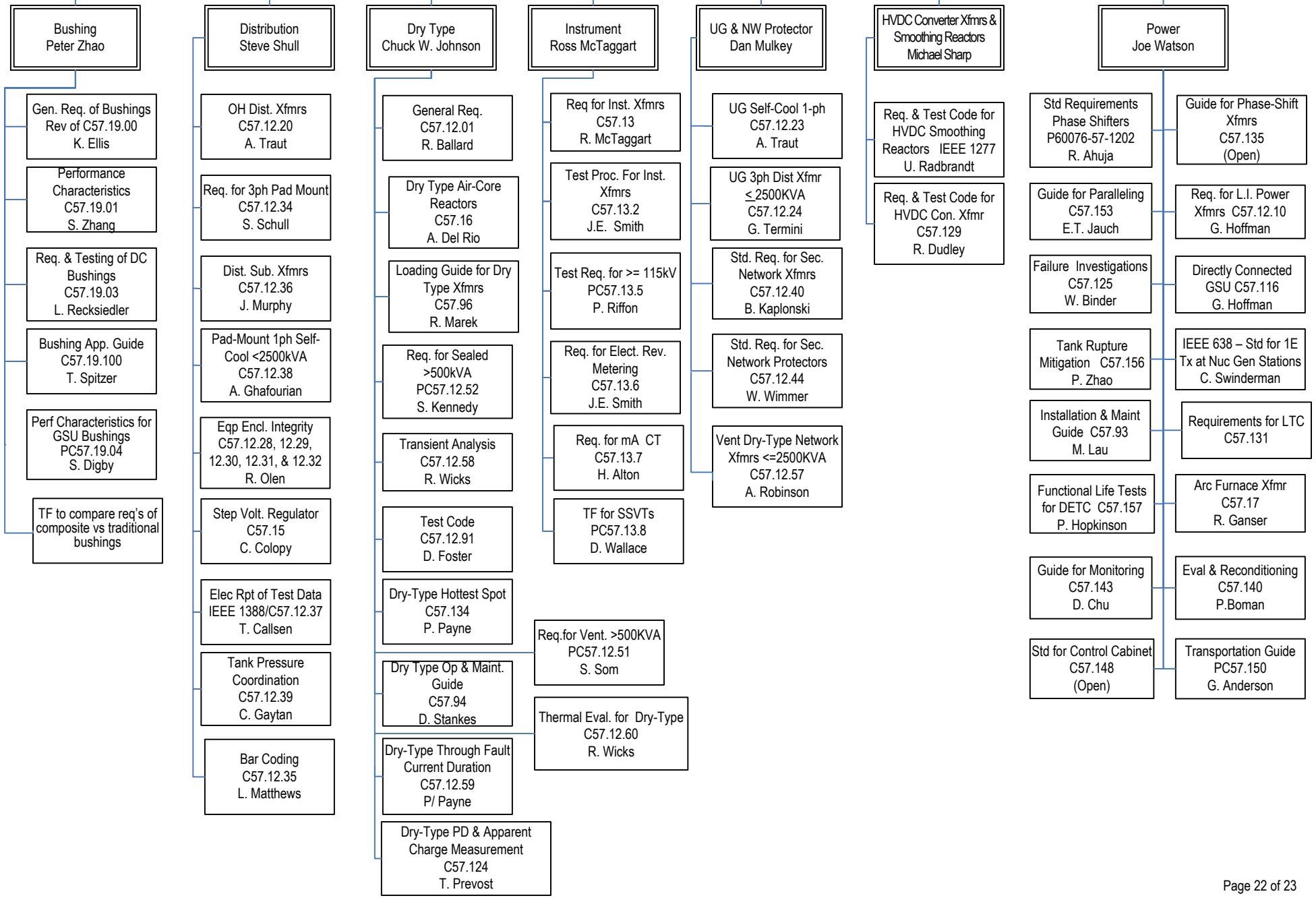
STANDARD PROJECT	TITLE	Working Group Chair Phone Email	Pub Year Rev Due Dat	PAR Issue Dat PAR Expiration	Standard Status Remark
SubCommittee **POWER TRANSFORMERS** Chair **Watson J.D.**		561 371 9138 joe_watson@ieee.org			
C57.140 PC57.140	Evaluation and Reconditioning of Liquid Immersed Power Transformers	Boman P.E. (785)256-7161 paul_boman@hsb.com	2006 **12/31/2018**	03/31/2011 **12/31/2017**	Approved D18 approved by RevCom 11/16/2006 Mar '11: Nescom approved new PAR until Dec31 2015 PAR Extension approved Sept 2015 for 2 more years
C57.143	Guide for Application for Monitoring Equipment to Liquid-Immersed Transformers and Components	Chu D. (212) 460-3456 chud@coned.com	 **12/31/2023**		Approved
C57.148	Standard for Control Cabinets for Power Transformers	Watson J.D. 561 371 9138 joe_watson@ieee.org	2011 **09/10/2021**		Approved Standard Approved by Std Bd Sept 2011
C57.150	Guide for the Transportation of Large Power Transformers and Reactors	Anderson G. W. (402) 680-1111 gwanderson@ieee.org	2012 **12/31/2022**		Approved
C57.153	Guide for Paralleling Power Transformers	Jauch E.T. (727) 866-0632 jauch@ieee.org			Approved PAR approved Mar 2008 PAR Extension granted May 2012, until Dec2014 PAR modification approved Dec 2014 Std approved by SASB March 2015
C57.157	Guide for Conducting Functional Life Tests for De-energized Tap-changer Contacts	Hopkinson P. J. (704) 846-3290 phopkinson@ieee.org	2015 **12/31/2025**		Approved PAR for New standard approved Dec'11 PAR Modification (changing title and scope) approved Dec 2014 Standard approved Oct 2015
C57.17	Standard Requirements for Arc Furnace Transformers	Ganser R. (330) 492-8433 rganser@aol.com	 **12/31/2022**		Approved ANSI issued the original C57.17 standard in 1965.
C57.93 PC57.93	IEEE Guide for Installation of Liquid-Immersed Power Transformers	Lau M. Y. (604) 528-3201 mike.lau@bchydro.bc.ca	1995 **12/31/2018**	03/29/2012 **12/31/2016**	Approved Standard - with approved PAR for Revision Rev of ASA C57.93-1958, IEEE Std C57.12.11-1980, & C57.12.12-1980 PAR to Revise IEEE Std C57.93-1995 Approved by RevCom 12/2007 PAR for Revision was approved March 2012
IEEE 638	IEEE Standard for Qualification of Class 1E Transformers for Nuclear Power Generating Stations	Swinderman C. (724) 778-5234 craig.swinderman@meppi.mea.com	1992 **12/31/2023**		Approved - Active Reaffirmation approved by SA Board 3/30/2006. New PAR for revision approved 6/7/2007. Standard approved by SASB Dec 11 2013

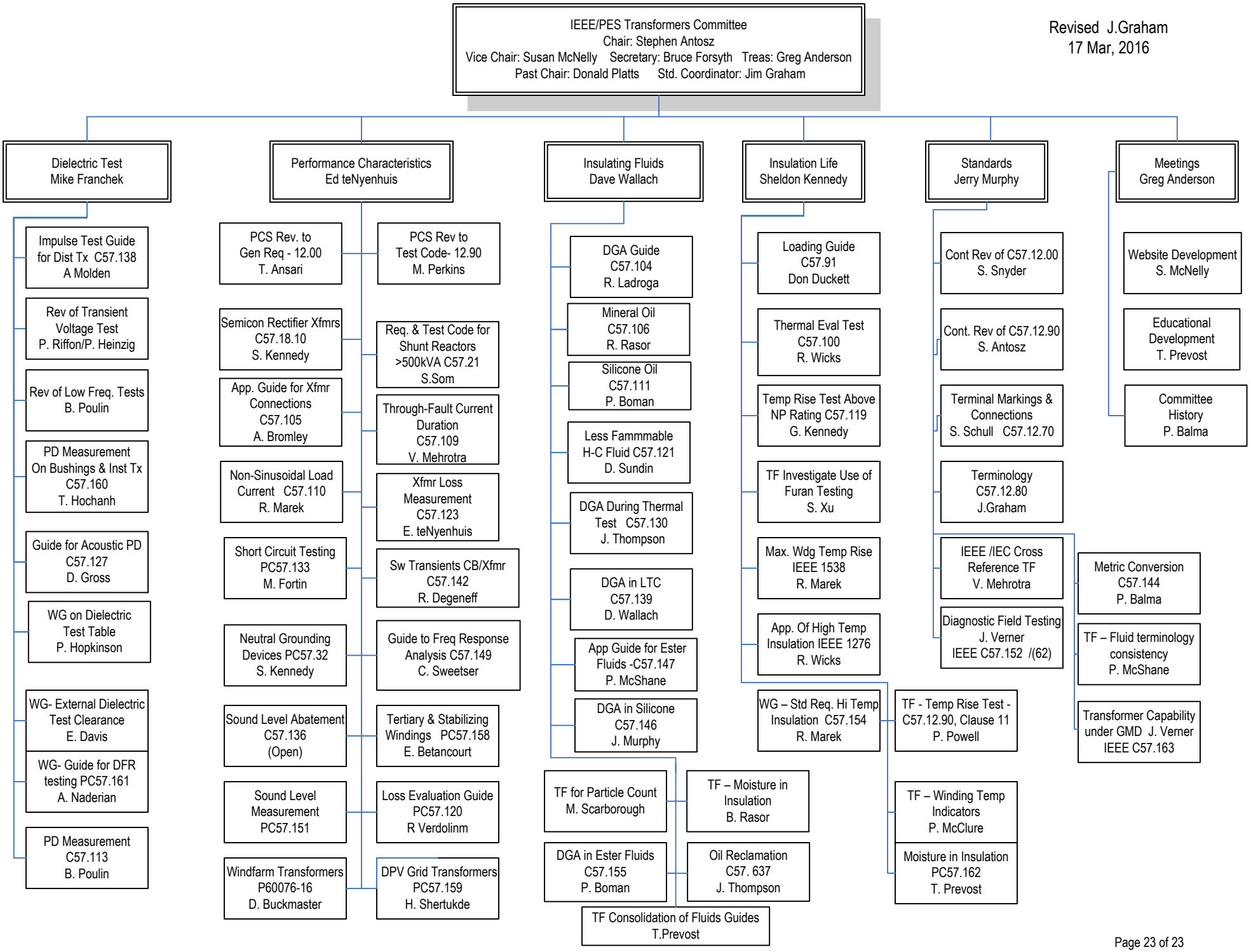
STANDARD PROJECT	TITLE	Working Group Chair Phone Email	Pub Year Rev Due Dat	PAR Issue Dat PAR Expiration	Standard Status Remark
SubCommittee **STANDARDS** Chair **Bartley W. H.**		(860) 205-0803 whbartley@gmail.com			
C57.12.00 PC57.12.00	IEEE Standard for General Requirements For Liquid-Immersed Distribution, Power, and Regulating Transformers	Snyder S. L. (731) 288-4282 slsnyder@ieee.org	2010 **06/17/2020**	06/16/2011 **12/31/2015**	Approved 2010 rev approved by SA Board in June, 2010. Published 9/10/2010. Std submitted to REVCOM /on Dec '15 Agenda
C57.12.70 C57.12.70	IEEE Standard Terminal Markings and Connections for Distribution and Power Transformers	Shull S. (417) 625-6110 sshull@empiredistrict.com	2000 **12/31/2021**	10/19/2015 **12/31/2019**	Approved + Active PAR for Corrigenda Published 3/16/2001. Reaff approved by RevCom 3/30/2006. New Revision approved by Std Board Dec 2011
C57.12.80	IEEE Standard Terminology for Power and Distribution Transformers	Chiu B. (626) 308-6086 bill.chiu@sce.com	2002 **09/30/2020**		Approved std Amendment PAR approved to add thermally upgraded definition Revision approved Sept 2010
C57.12.90 PC57.12.90	IEEE Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	Antosz S. (412) 498-3916 santosz@comcast.net	2006 **06/17/2020**	06/16/2011 **12/31/2015**	Approved Published Oct 2010 PAR for Continuous Revision approved June 2011 Standard submitted to RevCom /on Dec '15 Agenda
C57.144	Guide for Metric Conversion of Transformer Standards	Balma P.M. (973) 430-8259 peter.balma@pseg.com	2004 **03/25/2020**		Approved Published 10/22/2004 Reaffirmed March 2010
C57.152	IEEE Guide for Diagnostic Field Testing of Power Apparatus - Part 1: Oil Filled Power Transformers, Regulators, and Reactors	Verner J. A. 202 872-2812 javerner@pepco.com	1995 **12/31/2023**		Approved Originally IEEE 62. Reaff was successful.in 2005. New WG formed to revise document on a continuous basis based on TF recommendation. Revision changed to C57 series,
C57.163 PC57.163	Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances	Verner J. A. 202 872-2812 javerner@pepco.com	**12/31/2025**	03/27/2014 **12/31/2018**	Approved Standard Approved by Standards Board Sept 2015

STANDARD / PROJECT	TITLE	Working Group Chair / Phone / Email	Pub Year / Rev Due Dat	PAR Issue Dat / PAR Expiration	Standard Status / Remark
SubCommittee Chair	**UNDERGROUND TR & NW PROTECT** — **Mulkey D. H.**	(415) 973-4699 dhmulkey@ieee.org			
C57.12.23 PC57.12.23	IEEE Standard for Underground Type, Self-Cooled, Single-Phase Distribution Transformers with Separable Insulated High-Voltage Connectors; High Voltage 25kV and Below; Low Voltage 600V and Below	Traut A. 706-548-3121 atraut@ieee.org	2009 **03/19/2019**	08/21/2014 **12/31/2018**	Approved + active PAR for Revision Published 4/20/2009 PAR for Revision approved Aug 2014
C57.12.24 PC57.12.24	Requirements for Transformers - Underground-Type, Three Phase Distribution Transformers: High Voltage (34 500 GrdY/19 920 V and Below) and Low Voltage (480V and Below, 2500 kVA and Smaller	Termini G. (610) 941-1524 giuseppe.termini@peco-energy.com	2000 **06/17/2019**	11/09/2011 **12/31/2015**	Approved standard New PAR for Revision approved Nov '11 PAR Extension Requested /on Dec '15 Agenda
C57.12.40 PC57.12.40	Standard for Requirements for Secondary Network Transformers - Subway and Vault Types (Liquid Immersed)	Klaponski B. (204) 633-7220 brian.klaponski@carte.ca	2011 **12/31/2021**	08/30/2012 **12/31/2016**	Approved Standard with approved PAR for Revision Approved - C57.12.40-2011
C57.12.44 PC57.12.44	IEEE Standard Requirements for Secondary Network Protectors	Wimmer W. G. (804) 771-4225 bill_wimmer@dom.com	2014 **12/31/2024**	03/26/2015 **12/31/2019**	Approved + PAR for Revision PC57.12.44 -2014 approved by SASB March 2014
C57.12.57	Requirements for Ventilated Dry-Type Network Transformers 2500 kVA and Below, Three-Phase with High Voltage 34 500 Voltas and Below, Low Voltage 216Y/125 and 480Y/125 Volts	Robinson A. L. (361) 289-4001 alrobinson@aep.com	1992 **12/31/2000**		Standard WITHDRAWN in 2001 Existing standard withdrawn by IEEE on 1/15/2001. No longer endorsed by IEEE.

IEEE/PES Transformers Committee
Chair: Stephen Antosz
Vice Chair: Susan McNelly Secretary: Bruce Forsyth Treas: Greg Anderson
Past Chair: Donald Platts Std. Coordinator: Jim Graham

Revised by J.Graham
17 Mar, 2016




IEEE/PES Transformers Committee
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Revised J.Graham
17 Mar, 2016
Dielectric Test
Mike Franchek
Impulse Test Guide for Dist Tx C57.138
A Molden
Rev of Transient Voltage Test
P. Riffon/P. Heinzig
Rev of Low Freq. Tests
B. Poulin
PD Measurement On Bushings & Inst Tx
C57.160
T. Hochanh
Guide for Acoustic PD
C57.127
D. Gross
WG on Dielectric Test Table
P. Hopkinson
WG- External Dielectric Test Clearance
E. Davis
WG- Guide for DFR testing PC57.161
A. Naderian
PD Measurement
C57.113
B. Poulin
Performance Characteristics
Ed teNyenhuis
PCS Rev. to Gen Req - 12.00
T. Ansari
PCS Rev to Test Code- 12.90
M. Perkins
Semicon Rectifier Xfmrs
C57.18.10
S. Kennedy
Req. & Test Code for Shunt Reactors >500kVA C57.21
S.Som
App. Guide for Xfmr Connections
C57.105
A. Bromley
Through-Fault Current Duration
C57.109
V. Mehrotra
Non-Sinusoidal Load Current C57.110
R. Marek
Xfmr Loss Measurement
C57.123
E. teNyenhuis
Short Circuit Testing
PC57.133
M. Fortin
Sw Transients CB/Xfmr
C57.142
R. Degeneff
Neutral Grounding Devices PC57.32
S. Kennedy
Guide to Freq Response Analysis C57.149
C. Sweetser
Sound Level Abatement
C57.136
(Open)
Tertiary & Stabilizing Windings PC57.158
E. Betancourt
Sound Level Measurement
PC57.151
Loss Evaluation Guide
PC57.120
R Verdolinm
Windfarm Transformers
P60076-16
D. Buckmaster
DPV Grid Transformers
PC57.159
H. Shertukde
Insulating Fluids
Dave Wallach
DGA Guide
C57.104
R. Ladroga
Mineral Oil
C57.106
R. Rasor
Silicone Oil
C57.111
P. Boman
Less Fammmable H-C Fluid C57.121
D. Sundin
DGA During Thermal Test C57.130
J. Thompson
DGA in LTC
C57.139
D. Wallach
App Guide for Ester Fluids -C57.147
P. McShane
DGA in Silicone
C57.146
J. Murphy
TF for Particle Count
M. Scarborough
TF – Moisture in Insulation
B. Rasor
DGA in Ester Fluids
C57.155
P. Boman
Oil Reclamation
C57. 637
J. Thompson
TF Consolidation of Fluids Guides
T.Prevost
Insulation Life
Sheldon Kennedy
Loading Guide
C57.91
Don Duckett
Thermal Eval Test
C57.100
R. Wicks
Temp Rise Test Above NP Rating C57.119
G. Kennedy
TF Investigate Use of Furan Testing
S. Xu
Max. Wdg Temp Rise IEEE 1538
R. Marek
App. Of High Temp Insulation IEEE 1276
R. Wicks
WG – Std Req. Hi Temp Insulation C57.154
R. Marek
TF - Temp Rise Test - C57.12.90, Clause 11
P. Powell
TF – Winding Temp Indicators
P. McClure
Moisture in Insulation
PC57.162
T. Prevost
Standards
Jerry Murphy
Cont Rev of C57.12.00
S. Snyder
Cont. Rev of C57.12.90
S. Antosz
Terminal Markings & Connections
S. Schull C57.12.70
Terminology
C57.12.80
J.Graham
IEEE /IEC Cross Reference TF
V. Mehrotra
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