

Distribution Transformer Subcommittee

Task force / Working Group Report

Document #: C57.12.20

Document Title:

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
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Chair: Al Traut Vice-Chair: Ed Smith

Secretary: _____

Current Draft Being Worked On: D6 Dated: 7/2017

Meeting Date: Monday, 10/30/2017 Time: 11:00am – 12:15pm

Attendance:	Members	<u>34</u>
	Guests	<u>39</u>
	Total*	<u>73</u>

* For details of attendance, please refer to AMS system of the Transformers Committee

Meeting Minutes

The meeting was called to order was immediately followed by introductions.

The patent policy was reviewed per guidelines from the ADCOM Meeting:

“If any individual believes that Patent Claims might be Essential Patent Claims that fact should be made known to the entire working group and will be duly recorded in the minutes of the working group meeting. This request shall occur at every standards-developing meeting once the PAR is approved by the IEEE-SA Standards Board.” **None were brought forward**

Based on the WG members projected on the screen, and count made of those shown, a quorum was declared. There were 34 of 41 members present.

The Chair asked if any member objected to the proposed agenda as displayed to the Working Group. No objections were brought forward so the agenda was unanimously approved as submitted.

The Chair asked if any member objected to the S17 (New Orleans, LA) minutes as submitted to the Working Group. No objections were brought forward; therefore, the S17 Minutes were unanimously approved.

The Chair reviewed the meeting requirements for membership

Member:

- Request membership at the first meeting of the WG.
- Attend 2 consecutive meetings and request membership.
- Membership is granted following the 2nd meeting.
- Miss 2 consecutive meetings and you may be removed from membership.
- Special circumstances will be considered.

Guest:

Any attendee that is not a member.

Four new members were recognized and added to the membership list:

- Igor Simonov
- Jermaine Clonts
- Charles Morgan
- Jeff Valmus

The two rosters were circulated with instructions.

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The current status of the C57.12.20 document was reviewed:

- C57.12.20-2011 was published on September 20, 2011 given the 10-year cycle the standard would have been inactivated on September 20, 2021
- PAR was approved by NESCOM June 2012.
- PAR Extension was granted Dec 2016 with the PAR Expiring on December 31, 2017.
- Re-circulate ballot and submit to RevCom before 10/2017 deadline.
- Draft 6 was approved at 9/28/2017 RevCom Meeting

The Chair reviewed the final Draft 6 edits that were submitted to RevCom

1. One of the IEEE coordinating groups had several comments related to adding the words "help" or "assist" when referring to items regarding prevention, e.g., "help prevent..." vs "prevent...". This occurs several times in the document. This was changed to meet their suggested changes.
2. Table 5 was reviewed and it had a format error; therefore, we broke voltages into two columns one single phase and the other three phase. In addition, the use of the delta symbol for three phase voltage ratings was addressed. Same thing on LV Terminal sizes (voltage ratings) 150 to 225 kVA dimensions were changed from the previous revision due to a typo.
3. Table 11 was reviewed; Updated the voltage rating and use of the delta symbol as discussed in Table 5 "Z" dimension does not apply for HV bushings with more than 30" creep length.
4. 7 figures were for configuration. One of the IEEE editors wanted to change the 7 "Figures" to "Tables". The Chair objected due to the historical use of the term "Figures" and the editor accepted this justification.

That was the extent of the changes made to C57.12.20 REV 6

Comments were requested from the working group and none were received from the floor. The Chair requested a note added for us to check of the 347/600Y rating for consistency in the document. This will be part of final editorial review.

The Chair reviewed some of the topics slated to be addressed in the next revision:

1. Introduce and address the platform mounting arrangement into the standard.
2. The Chair asked Carlos Gaytan for the status of 12.39. If/when it is published there will be cause for us to refer to it in our standard and delete some of the specific information in 12.20, eg, clause 9.
3. Three phase connections are currently delta and wye only. Do we want to include the TT connection in this standard? We will place on agenda for discussion
4. "Figure" vs "Table" discussion, we need to be aware of it and mindful as we move forward
5. LV Terminals. We need to address some of the interchangeability discussion. We need to make sure that this standard follows what is being addressed in C57.19.02 i.e. tank hole and stud sizes, etc.
6. There are some things in the document that may need to be rearranged and placed in different clauses., eg, lifting lugs & support Lugs. Are they tank features or accessories?
7. Should we consider adding the requirement for coastal application?
8. The Chair asked for any other agenda items for the next revision. None were brought forward. The Chair suggested if something comes to mind send him an email;

At the Pittsburgh meeting we will review the outline of items for the next draft and prepare the title, scope and purpose for a new PAR. Present wording below:

Distribution Transformer Subcommittee

Working Group Report

Title

IEEE Standard for Overhead-Type Distribution Transformers 500kVA and Smaller: High Voltage, 34 500 V and Below; Low Voltage, 7970/13 800Y V and Below

1.1 Scope

This standard covers certain electrical, dimensional, and mechanical characteristics and safety features of single- and three-phase, 60-Hz, **liquid-immersed**, self-cooled, overhead-type distribution transformers 500 kVA and smaller, high voltages 34 500 V and below and low voltages 7970/13 800Y V and below.

1.2 Purpose

This standard is intended for use as a basis for determining the performance, interchangeability, and safety of overhead-type distribution transformers and to assist in the proper selection of this equipment.

The next meeting will be in March 2018 in Pittsburgh, PA.

The Meeting was adjourned 11:31