

# Distribution Transformer Subcommittee

## Task force / Working Group Report

Document #: C57.12.30 & C57.12.31

Document Title: Enclosure Integrity

Chair: Dan Mulkey Vice-Chair Jeremy Van Horn

Secretary Audrey Siebert-Timmer

Current Draft Being Worked On: 1.2 Dated: Sept 2019

Meeting Date: 10/28/2019 Time: 8:00 AM

Attendance:	Members	<u>47</u>
	Guests	<u>28</u>
	Total*	<u>75</u>

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

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### Meeting Minutes / Significant Issues / Comments:

1. Dan Mulkey called the meeting to order at 8:00 AM.
2. Introductions were performed.
3. Membership changes were noted:
  - a. Removed: Ron Stahara
  - b. Added: Glenn Andersen, Jason Attard, Thomas Dauzat, James Dorsten, James Spaulding, and Liz Sullivan
4. Quorum was verified. The working group consisted of 61 members, requiring **31** for quorum. 34 members were confirmed at the time of counting. 47 members were confirmed afterwards through the roster.
5. Ed Smith made a motion, seconded by Igor Simonov, for approval of the minutes. No opposition was raised so the minutes were unanimously approved.
6. Dan Mulkey reviewed IEEE SA Copyright Policy and Essential Patent Claims. No issues were raised.
7. Ed Smith made a motion, seconded by Steve Shull, for approval of the agenda. No opposition was raised so the agenda was unanimously approved.
8. Status of Standards:
  - a. C57.12.28 Standard for Pad-Mounted Equipment – Enclosure Integrity, Published July 15, 2014, Revision Due: 12/31/2024
  - b. C57.12.29 Standard for Pad-Mounted Equipment – Enclosure Integrity for Coastal Environments, Published August 8, 2014, Revision Due: 12/31/2024
  - c. C57.12.30 Standard for Pole-Mounted Equipment – Enclosure Integrity for Coastal Environments, Published September 20, 2010, Revision Due: 6/17/2020
    - i. PAR expiration: 12/31/2023
  - d. C57.12.31 Standard for Pole Mounted Equipment – Enclosure Integrity, Published September 20, 2010, Revision Due: 6/17/2020, Corrigenda approved May 16, 2014
    - i. PAR expiration: 12/31/2023

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- e. C57.12.32 Standard for Submersible Equipment – Enclosure Integrity, Published 8/8/2019, Revision Due: 12/31/2029
  
- 9. Old business:
  - a. Israel Barrientos presented Taskforce 1 work on enclosure definition for C57.12.30 and C57.12.31.
    - i. “Enclosure: The manufacturer supplied tank, cover, cover retention and integral components (like sealed bushings or overpressure devices) or other housing containing the electrical equipment, its insulating medium and internal components. The tank or housing includes permanent attachments such as weldments necessary for the proper handling , mounting, operation or upgrading of the equipment. This tank or other housing is typically located outdoors, above grade level, and not accessible to the general public, as some of its external components have high voltages during operation.”
    - ii. Israel made a motion to accept the above proposed definition. Seconded by Al Traut.
    - iii. **Motion** was unanimously approved.
  - b. Justin Minikel presented Taskforce 2 work on the proposed wording for 5.4.3 Humidity test in C57.12.31.
    - i. “This test evaluates the performance of the coating system under controlled condensation conditions. Condensation may cause deterioration of the coating system impacting the useful service life of the equipment.”
    - ii. Justin Minikel made a motion to accept the above proposed wording. Seconded by Marty Rave.
    - iii. **Motion** was unanimously approved.
  - c. Taskforce 2 discussed SCAB methods and parameters but due to the pressing need to complete the standard nothing was presented. Justin Minikel suggested that this work would be incorporated in STNP TF on Corrosion Effects in Subsurface Transformers.
  
- 10. New business:
  - a. Tom Duzat made a motion to remove “bare” from before “substrate” in line 6, and before “substrate” in line 16 in Section 4.2.3 in C57.12.30. Seconded by Will Elliot.
    - i. There was a lot of discussion, the motivation to remove the word bare allows more flexibility to the utility.
    - ii. **Motion** passed: 20 in favor; 14 opposed.
  - b. Mike Thibault made a motion to include 5 to 1 ratio in the third paragraph of Section 4.2.3 so it is consistent with the first paragraph. Seconded by Tom Duzat.
    - i. **Motion** passed unanimously.
  - c. Dan Mulkey requested Tom Duzat to build table explaining the 5:1 ratio. Table to be circulated to members.
  - d. Carlos made a motion to add the word “uncoated” before the word “material” in the substrate definition. Seconded by Ed Smith.
    - i. **Motion** passed: 35 in favor, 4 opposed.
  - e. Jerry Murphy made a note that the C57.12.28 and C57.12.29 standards do not have the word uncoated included in the substrate definition.
  - f. Ed Smith made a motion to go out for ballot for both C57.12.30 and C57.12.31. Seconded by Said Hachici.
    - i. **Motion** passed unanimously.
  - g. Dan Mulkey asked for **ballot resolution committee volunteers: Jerry Murphy, Justin Minikel, Jeremy Van Horn, Dan Mulkey** volunteered.
  - h. Jerry Murphy is made a motion to give authority to the ballot resolution committee to make non-technical edits, second by Mike Thibault
    - i. **Motion** passed unanimously.

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11. Next meeting: March 24, 2020 in Charlotte, North Carolina, USA
  - a. The following attendees requested membership and will be added to membership for the Spring 2020 meeting: Brad Kittrell and Ion Radu.
12. The meeting was adjourned at 9:08 am.

Submitted by: Audrey Siebert-Timmer

Date: 10/29/2019