

*PCS Working Group on General Requirements C57.12.00*

**WG Item 81**

**C57.12.00/D2 April 2002 Section 6.7.2 Grounding of Core**

**Change Requested by :** W. J. (Bill) Bergman

**Requested Change :** This standard states that the core SHALL be grounded to the transformer tank. It does not allow for the option used by some purchasers of installing a resistor in series with the core ground.

Suggest revising the clause to also allow grounding of the core through a resistor to limit any inadvertent circulating current caused by an unintentional core ground.

**Section 6.7.2 Grounding of core**

The transformer core shall be grounded to the transformer tank for electrostatic purposes.

**WG Proposal :**

*PCS Working Group on General Requirements C57.12.00*

**WG Item 82**

**C57.12.00 - 2000 Section 7.1.4.4 Stabilizing windings**

**Change Requested by :** V. Sankar 5/07/2005 & 10/23/2006

**Requested Change :** Request to form a task force to discuss the following on buried tertiary and to modify the clause of 7.1.4.4 of C57.12.00 based upon the recommendations of the task force :

- 1) Guidelines to determine MVA rating of buried tertiary.
- 2) To define the conditions under which this MVA is applicable ;
  - (i) is it when the HV or LV is delivering top MVA,
  - (ii) should transformer MVA be vectorial sum or arithmetic sum of buried TV MVA with HV or LV MVA,
  - (iii) is the above applicable for step-down operation or for step-up operation or for both.
- 3) Tests to prove buried TVMVA rating :
  - (i) what should be losses to determine mean oil and top oil rise,
  - (ii) is shut-down needed to determine TV winding gradient.

**Section 7.1.4.4 Stabilizing Windings**

Stabilizing windings in three-phase transformers (delta-connected windings with no external terminals) shall be capable of withstanding the current resulting from any of the system faults specified in 7.1.1, recognizing the system grounding conditions. An appropriate stabilizing winding kVA, voltage, and impedance shall be provided.

**WG Proposal :**

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**WG Item 83**

**C57.12.00 - 2006 Section 8.6 Certified Test Data**

**Change Requested by :** Lin Pierce 2002/D2 Ballot C57.12.00 & C57.12.90

**Requested Change :** The "(when required)" after item c) 2) winding resistances has no meaning. Resistance is a routine test for transformers 501 kVA and larger per Table 21 of C57.12.00-2006. It is a Design Test for 500 kVA and smaller. Thus when tests are not performed, calculated or design test data should be given on the certified test report. The resistance data gives the user a check to see if the reported loss data is correct. The user can calculate the  $I^2 R$  loss and it should be less than the load losses. If it is not, something is wrong. The resistance data is needed to determine stray losses and perform harmonic load capability calculations per C57.110.

Remove the "(When Required)" note from Clause 8.6 item c) 2).

**WG Proposal :**