

## CTL DECISION SHEET

<b>Standard:</b> <b>IEC 61558-1/1997</b>	<b>Sub clause:</b> <b>26.2</b>	<b>Sheet N°:</b> <b>594/06</b>  <b>Page:</b> <b>1(1)</b>
<b>Subject:</b> <b>Creepage distances</b>	<b>Key words:</b> - <b>Creepage distances</b> - <b>Reduced value</b> - <b>Impregnation</b>	<b>Meeting:</b> <b>Decision confirmed</b> <b>at 44<sup>th</sup> CTL meeting</b>
<p><b>Question:</b> Clause 26 of the standard lists several requirements regarding creepage distances, clearances and distances through insulation. In particular, paragraph 4 of subclause 26.2 states: “The reduced values shown in Table 13, C.1 and D.1 can be used when separation is made by the use of impregnation, potting, or by the use of adhesive bonding tape covering the windings, provided that the tests of 4.1.1.2.1 of IEC 60664-1 are fulfilled”. To check whether the parts are adequately potted, impregnated or cemented together, the tests according to procedure A) or B) are conducted. If a transformer is impregnated or potted on the outside only, and the impregnation material has not penetrated inside it, e.g. between primary and secondary winding or between winding and core, can the reduced values of Table 13, C.1, D.1 be taken into account?</p> <p><b>Decision:</b> Yes, According to the IEC 61558-1, it is not required that the impregnation or potting material must penetrate into all parts of the transformer. The criteria for acceptance is the tests described in clause 26. The second edition of IEC 61558-1 is clear in this respect.</p> <p><b>Explanatory notes</b> --</p>		