

		<b>LOVAG DECISION SHEET (LDS)</b>		N°[LDS187]
				Pag. 1 of [1]
References	Standard(s) (incl. year)	[IEC 61439-1: 2011 ]		Subclause(s): 10.9.3.2
	Subject	[Dielectric properties.	Submitted by: TECNALIA	Date: 31/05/2018 ]
Question	<p>(Impulse withstand voltage test)  Auxiliary circuits not connected to main circuits shall be connected to earth  a) between all the live parts of different potential of the main circuit connected together (including the control and auxiliary circuits connected to the main circuit) and exposed conductive parts, with the main contacts of all switching devices in the closed position or bridged by a suitable low resistance link;  b) between each live part of different potential of the main circuit and, the other live parts of different potential and exposed conductive parts connected together, with the main contacts of all switching devices in the closed position or bridged by a suitable low resistance link.  Etc.etc.</p>			
Analysis	<ol style="list-style-type: none"> <li>1) Why the sentence between () is not reproduced in point b)?</li> <li>2) Must auxiliary circuits connected to main circuit be tested between phases?</li> <li>3) In tests a) an b), auxiliary circuits not connected to the main circuits, are “floating”, or must be connected to earth?</li> </ol>			
Decision	<ol style="list-style-type: none"> <li>1) Although current consuming apparatus shall be disconnected at one terminal, auxiliary circuits connected to main circuits must be tested also between phases, so sentence in () applies also to point b)</li> <li>2) Auxiliary circuits not normally connected to main circuits should be earthed, as indicated in 10.9.3.2 for impulse tests.</li> </ol>			
Date: [19/06/2018]		Prepared by: [Tecnalia]		Approved by: [LOVAG Technical Committee 2018-06-19]