

		<b>LOVAG DECISION SHEET (LDS)</b>		N°[LDS188]
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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	(Impulse withstand voltage test) Auxiliary circuits not connected to main circuits shall be connected to earth			
Analysis	This general condition for impulse tests is contradictory with tests of point c) at the end of this sub clause: test voltage applied between each control and auxiliary circuit not normally connected to the main circuit. Auxiliary circuits not normally connected to main circuits should be earthed, as indicated in 10.9.3.2 for impulse tests and the.....			
Decision	In our opinion, point c) should not be applicable to impulse withstand tests. IEC 61439-1 only considers one rated impulse withstand voltage of the ASSEMBLY, not different voltages for different circuits, and it seems no sense to apply same impulse voltage to auxiliary circuits not connected to main circuit that to main circuits. For power-frequency withstand tests, a rated insulation voltage can be assigned to each circuit, and the standard clearly states test voltages for auxiliary circuits not connected to main circuits (table 9). This is not stated for impulse voltage tests on these circuits.			
Date: [19/06/2018]		Prepared by: [Tecnalia]		Approved by: [LOVAG Technical Committee 2018-06-19]