

Annex 1C Assessment Scope for Specialized Testing Laboratory

Name of the Test	Standard	Clause of the Standard	Assessment Team acceptance	
			Yes	No
Measured limiting voltage (only for test class I and test class II)	IEC 61643-11:2011	8.3.3	<input type="checkbox"/>	<input type="checkbox"/>
Operating duty test (only for test class I and test class II)	IEC 61643-11:2011	8.3.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Thermal stability	IEC 61643-11:2011	8.3.5.2	<input type="checkbox"/>	<input type="checkbox"/>
Short-circuit current behaviour tests	IEC 61643-11:2011	8.3.5.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Behaviour under Temporary Overvoltages (TOVs)	IEC 61643-11:2011	8.3.8	<input type="checkbox"/>	<input type="checkbox"/>
Load-side short-circuit current behaviour test	IEC 61643-11:2011	8.6.1.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Short-circuiting type SPDs	IEC 61643-11:2011	8.6.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Total discharge current test for multipole SPDs (only for test class I and test class II)	IEC 61643-11:2011	8.7.1	<input type="checkbox"/>	<input type="checkbox"/>
Load-side surge withstand capability	IEC 61643-11:2011	8.7.3	<input type="checkbox"/>	<input type="checkbox"/>
Measurement of voltage rate of rise du/dt	IEC 61643-11:2011	8.7.4	<input type="checkbox"/>	<input type="checkbox"/>
Voltage-limiting tests (Except impulse Category C1, C2)*	IEC 61643-21:2000 IEC 61643-21:2000/ AMD1:2008 IEC 61643-21:2000/ AMD2:2012	6.2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Current-limiting tests (Except impulse Category C1, C2)	IEC 61643-21:2000 IEC 61643-21:2000/ AMD1:2008 IEC 61643-21:2000/ AMD2:2012	6.2.2	<input type="checkbox"/>	<input type="checkbox"/>
Transmission Tests	IEC 61643-21:2000 IEC 61643-21:2000/ AMD1:2008 IEC 61643-21:2000/ AMD2:2012	6.2.3	<input type="checkbox"/>	<input type="checkbox"/>
Environmental cycling with impulse surges	IEC 61643-21:2000 IEC 61643-21:2000/ AMD1:2008 IEC 61643-21:2000/ AMD2:2012	6.4.2	<input type="checkbox"/>	<input type="checkbox"/>
Environmental cycling with a.c. surges	IEC 61643-21:2000 IEC 61643-21:2000/ AMD1:2008 IEC 61643-21:2000/ AMD2:2012	6.4.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note: Only those clauses directly covered via witness tests and technical file review during this assessment are checked. Those not covered are left blank.

*According to the laboratory there is no such limitation to Cl.6.2.1 (highlighted in yellow) in 2014 assessment report and this was a mistake introduced in 2018 assessment report. In this assessment the technical assessor witnessed 6.2.1 of IEC 61643-21 and the laboratory demonstrated all tests related to this clause of the standard (6.2.1.1, 6.2.1.2, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.1.6, 6.2.1.7, 6.2.1.8) and coincidentally with a sample marked with category C2. Therefore the assessment team does not see any reason to have this limitation in the scope of the laboratory.