

Upcoming Changes for Laboratory Equipment IEC 61010-1, UL 61010-1 and CSA C22.2 No. 61010-1

by Noel Lovato, Product Safety Engineer, Elliott Laboratories- An NTS Company

Manufacturers of Laboratory Equipment intended for sale in the European Union and other countries should take note of the following upcoming changes to IEC 61010-1.

In June 2010, the IEC published the latest version of IEC 61010-1, the 3rd Edition. This revision is considered a technical revision and includes some significant changes in the new edition.

Some of the changes are as follows:

- 1) The scope of the standard has been now includes all locations where these products may be used, so that both professional and non-professional versions of these products fall within the scope.
- 2) Testing and measuring circuits (in various sub clauses and the entirety of Clause 16) have been removed and included in a particular standard IEC 61010-2-030.
- 3) New insulation requirements have been issued.
- 4) Expanded and more detailed requirements for protection against mechanical hazards.
- 5) Surface temperature limits have been updated per the requirements of EN 563.
- 6) Additional Radiation requirements that take into account a distinction between intended emission and unintended emission.
- 7) New requirements for misuse and ergonomic aspects have been added.
- 8) New risk assessment requirements have been added.
- 9) New informative section to addresses pollution degree and use in a micro-environment.
- 10) Additional requirements for conformal coatings have been added.
- 11) A new section to help explain the working voltage of a mains circuit.

The tentative effective date for the cessation of the 2nd edition in the EU is October 1st, 2013.

What this means is that all new laboratory products intended to be sold in the EU must comply with the 3rd Edition.

In the US, the United States Technical Advisory Group is currently reviewing the standard to harmonize the US version with the IEC version. They are expected to release an updated version sometime in the spring of 2012.

For more information about how this change affects your products or for a price quote for services, please contact us at info@elliottlabs.com or call at 510-578-3500.

About Elliott Laboratories, An NTS Company

Based in the heart of Silicon Valley, Elliott Laboratories is a world-class Regulatory Compliance Laboratory. With over 25 years of experience servicing the needs of product manufacturers, Elliott's clients save time and money by achieving their regulatory compliance requirements quickly and efficiently, enabling them to bring their products to market without costly delays. Elliott continues to pursue a course of partnering with best-in-class service providers to offer a full-service compliance solution designed to meet the needs of even the most demanding product manufacturers. For more information, visit www.elliottlabs.com.