SLOVENSKI PREDSTANDARD

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Delo pod napetostjo - Ugotavljanje skladnosti za orodja, naprave in opremo

Live working - Conformity assessment applicable to tools, devices and equipment

ICS 13.260

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78/684/CDV

COMMITTEE DRAFT FOR VOTE (CDV)
PROJET DE COMITÉ POUR VOTE (CDV)

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Also of interest to the following committees Intéresse également les comités suivants	Supersedes document Remplace le document 78/653/CD & 78/663&663A/CC

Functions concerned
Fonctions concernées

☐ Safety / Sécurité ☐ EMC / CEM ☐ Environment / Environnement ☐ Quality assurance / Assurance qualité

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Titre : CEI 61318 EDITION 3: TRAVAUX SOUS TENSION – EVALUATION DE LA CONFORMITE APPLICABLE À L'OUTILLAGE, AU MATÉRIEL ET AUX DISPOSITIFS

Title : IEC 61318 EDITION 3: LIVE WORKING – CONFORMITY ASSESSMENT APPLICABLE TO TOOLS, DEVICES AND EQUIPMENT

Note d'introduction

Ce document a été préparé par le chargé de Projet M. S. Arberet (FR) et son Équipe de projet, sous la responsabilité du GT 11.

Ce projet est issu du document 78/653/CD et tient compte des observations présentées par les comités nationaux tels que rapporté dans les documents 78/663&663A/CC.

Les Comités nationaux sont aussi invités à prendre en compte les informations incluses dans le document 78/683/INF.

Introductory note

This document has been prepared by the Project leader Mr S. Arberet (FR) and his Project team under the responsibility of WG 11.

This project is based on document 78/653/CD and takes into account the comments received from the National Committees as given in documents 78/663&663A/CC.

National Committees are also invited to consider the information included in document 78/683/INF.

ATTENTION VOTE PARALLÈLE CEI – CENELEC	ATTENTION IEC – CENELEC PARALLEL VOTING
L'attention des Comités nationaux de la CEI, membres du CENELEC, est attirée sur le fait que ce projet de comité pour vote (CDV) de Norme internationale est soumis au vote parallèle. Un bulletin de vote séparé pour le vote CENELEC leur sera envoyé par le Secrétariat Central du CENELEC.	The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) for an International Standard is submitted for parallel voting. A separate form for CENELEC voting will be sent to them by the CENELEC Central Secretariat.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIVE WORKING – CONFORMITY ASSESSMENT APPLICABLE TO TOOLS, DEVICES AND EQUIPMENT

FOREWORD

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International Standard IEC 61318 has been prepared by IEC technical committee 78: Live working.

This third edition cancels and replaces the first edition which was issued as a technical report in 1994 and the second edition, which was issued as a standard in 2003. It includes the following significant technical changes from the previous edition:

— Change of the purpose of the document from a support to standard writers to a standard for assessing the conformity by testing of products having completed the production phase;

— Clarification of the definitions of critical, major and minor defects;

— Specification of ISO 2859 for the manufacturers to define the appropriate sampling plans;

— Review of the acceptance quality limit (AQL) to specify lower limits.

The text of this standard is based on the following documents:

FDIS	Report on voting
78/XXX/FDIS	78/XXX/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date[1)] indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

1) The National Committees are requested to note that for this publication the maintenance result date is 2013.

Introduction

This publication provides elements for product conformity assessment.

This standard is specified in each IEC product standard for Live Working for the purpose of assessing that manufactured items meet the requirements of the relevant product standard.

It can be used as a basis for production certification.

TC 78 prepares product standards which include requirements and normative tests for design input (type tests).

Product conformity assessment elements related to the production phase (among them are sampling and routine tests) are included in the present standard.

This publication does not cover conformity of commercial shipments. Shipments can contain products coming from several production batches. Batches are here understood as related to production.

This publication is not a Quality Management Systems standard.

LIVE WORKING – CONFORMITY ASSESSMENT APPLICABLE TO TOOLS, DEVICES AND EQUIPMENT

1 Scope

This International Standard intends to provide elements for product conformity assessment. Critical defects on tools, devices and equipment for live working are not acceptable. Major defects on tools, devices and equipment for live working may lead to hazardous situations for workers and minor defects reduce the usability of the products.

This standard defines assessment methods for products having completed production phase to assure that they conform to the requirements of the corresponding product standard. It is to be used in conjunction with Live Working corresponding product standards.

The following elements are not covered by the present document, but are included in each product standard.

— Type tests.

— Provisions and description for sampling and routine tests.

— The identification and classification of the corresponding defects resulting of a risk assessment analysis.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2859-1:1999, *Sampling procedures for inspection* by attributes – *Partie 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 2859-2:1985, *Sampling procedures for inspection* by attributes – *Partie 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection*

ISO 2859-3:2005, *Sampling procedures for inspection* by attributes – *Partie 3: Skip-lot sampling procedures*

ISO 2859-4:2002, *Sampling procedures for inspection by attributes – Partie 4: Procedures for assessment of declared quality levels*

ISO 2859-5:2005, *Sampling procedures for inspection* by attributes – *Partie 5:* System of sequential sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection

ISO 2859-10:2006, *Sampling procedures for inspection by attributes – Part 10: Introduction to the ISO 2859 series of standard for sampling for inspection by attributes*

3 Terms and definitions

For the purposes of the present document, the following terms and definitions apply.

NOTE Some of the terms and definitions below have been modified in order to apply more exactly to live working product standards.

3.1
acceptance quality limit
AQL
maximum per cent defective (or the maximum number of defects per specified number of items) for purposes of sampling inspections, that can be considered satisfactory as a process average

[Definition 3.1.26 of ISO 2859-1, modified]

3.2
acceptance test
contractual test to prove to the customer that the item(s) meet(s) certain conditions of its specification

[IEV 151-16-23, modified]

3.3
conformity assessment
any activity concerned with determining directly or indirectly that relevant requirements are fulfilled

NOTE Examples of conformity-assessment activities are sampling, testing and inspection, evaluation, verification and assurance of conformity (supplier's declaration, certification), registration, accreditation and approval as well as their combinations.

[Definition 3.1 of ISO/IEC Guide 7]

3.4
critical defect
defect on manufactured product that judgement and experience indicate is likely to result in hazardous or unsafe conditions for individuals using and depending on the product

3.5
lot size
number of items in a lot to be evaluated for standard conformance

[Definition 3.1.14 of ISO 2859-1, modified]

3.6
major defect
defect on manufactured product, other than critical, that is likely to result in failure, or to materially reduce the functionality of the product

3.7
minor defect
defect on manufactured product that is not likely to materially reduce the functionality of the product

3.8
responsible authority
concept used to maintain the neutrality of this document (primarily for specification purposes), irrespective of whether it is being invoked or applied by the first, second or third party

NOTE The responsible authority may be:

a) the quality department within a supplier's organization (first party);

b) the purchaser or procurement organization (second party);

c) an independent verification or certification authority (third party);

d) any of a), b) or c), differing according to function as described in a written agreement between two of the parties, for example a document between supplier and purchaser.

[Definition 3.1.12 of ISO 2859-1, modified]

3.9
routine test
test performed on each item during or after manufacture to ascertain whether it complies with certain criteria

[IEV 151-16-17, modified]

3.10
sample size
number of items in the sample

[Definition 3.1.16 of ISO 2859-1]

3.11
sampling plan
combination of sample size(s) to be used and associated lot acceptability criteria

[Definition 3.1.17 of ISO 2859-1, modified]

3.12
sampling test
test on a sample

[IEV 151-16-20]

3.13
type test
test performed on one or more items representative of the production, made to show that the design of the product meets certain requirements

[IEV 151-16-16, modified]

4 General

The conformity assessment of every finished manufactured tool, device and equipment can be achieved by the application of the provisions of this standard.

Alternative test methods based on quality and safety assessment (see Annex B) are acceptable if they warrant the same level of conformity and safety and are validated by a “responsible authority”.

These alternative test methods shall be justified, described, maintained and recorded.