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**ELECTROSTATICS - CODE OF PRACTICE
FOR THE AVOIDANCE OF HAZARDS DUE
TO STATIC ELECTRICITY**

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CLC/TR 50404

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June 2003

English version

**Electrostatics -
Code of practice for the avoidance of hazards
due to static electricity**

This Technical Report was approved by CENELEC on 2003-04-19.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This CENELEC code of practice gives information about the product and process properties necessary to avoid electrostatic hazards as well as operational requirements to be written in the users manual to ensure safe use of the product or process. It can be used in a risk assessment of electrostatic hazards or for the preparation of product family or dedicated product standards for machines (i.e. type C standards in CEN, as defined in EN 414:1992, 3.1).

This CENELEC document is based on a number of documents including two national Codes of Practice: from the UK, BS 5958: Parts 1 & 2:1991, *Control of undesirable static electricity*; and from Germany, ZH 1/200: October 1989, *Code of Practice for preventing risks of ignition due to electrostatic charges: Guidelines in static electricity*, and a document published by Shell International Petroleum: *Static electricity - Technical and safety aspects*. It gives the best available accepted state of the art guidance for the avoidance of hazards due to static electricity.

This document is mainly written for designers of processes, manufacturers and test houses. Appropriate information about the procedures necessary to avoid electrostatic hazards shall be written in the users manual or on the product to ensure safety. This document can also be used by suppliers of equipment (e.g. machines) when no product family or dedicated product standard exists or where the existing standard does not deal with electrostatic hazards.

This CENELEC document was originally prepared by the Technical Committee CENELEC TC 44X, Safety of machinery: electrotechnical aspects. The text of the first edition approved by CLC/TC 44X on 1997-11-07 and its publication was authorised by the CENELEC Technical Board on 1999-01-01.

Following a decision by CENELEC BT, the maintenance of the document was undertaken by the Technical Committee CENELEC TC 31, Electrical apparatus for explosive atmospheres - General requirements, which has delegated the revision to its Working Group 20 dealing with electrostatic hazards.

The text of the draft was submitted to the National Committees for approval by correspondence and was approved by CENELEC as CLC/TR 50404 on 2003-04-19.

This Technical Report supersedes R044-001:1999.

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