

TECHNICAL REPORT

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Replaces R106-001:2002

English version

**Guidelines for product committees on
the preparation of standards related to
human exposure from electromagnetic fields**

Leitfaden für Produktkomitees
zur Ausarbeitung von Normen
in Bezug auf die Sicherheit von Personen
in elektromagnetischen Feldern

This Technical Report was approved by CENELEC on 2004-09-04.

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

CENELEC

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Foreword

This Technical Report was prepared by the Technical Committee CENELEC TC 106X, Electromagnetic fields in the human environment.

The text of the draft was submitted to the vote and was approved by CENELEC as CLC/TR 50442 on 2004-09-04.

This Technical Report supersedes R106-001:2002.

This report has been accepted by ETSI and CEN as the basis for the development of electromagnetic fields (EMF) standards.

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Introduction

The Council of the European Communities has adopted the Council Directive 73/23/EEC of 19 February 1973 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits, OJ L 77, 26.3.1973 and Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity, OJ L 91, 7.4.1999 including limitation of exposure from electromagnetic fields. The Directives cover the whole frequency range.

The European Commission has given CENELEC, CEN and ETSI the task of preparing the necessary standards for the implementation of these directives under the mandate M/305 and with reference to the Council Recommendation 1999/519/EC.

The above-mentioned standards are necessary to enable the presumption of conformity to the protection requirements of the LV and RTTE Directives. Conformance to the appropriate standards will facilitate the free movement of apparatus placed on the market within the European Union (EU).

1 Purpose

The purpose of this report is to

- give advice on the application of the basic and generic EMF standards,
- give advice on the preparation of product i.e. product-family or dedicated product EMF standards.

It should be noted that certification ¹⁾ aspects are not considered in this report.

This report is primarily intended for product-orientated committees preparing EMF standards.

2 Organisation and characteristics of EMF standards

To fulfil the tasks related to meeting the requirements of the LV and RTTE Directives, it is essential to be able to distinguish between the following six types of EMF standards:

- a) basic standards;
- b) generic standards;
- c) product-family standards;
- d) dedicated product standards;
- e) product standard when put into service;
- f) in situ standard.

In addition to the above types of standards, there is a need for a further category of documents including reports, guidance documents, codes of practice, etc. The following sub-clauses define (as precisely as practicable) the characteristics of these different types of standards.

¹⁾ Certification (of conformity) is the action by a third party demonstrating that adequate confidence is provided that a duly identified product, process or service is in conformity with a standard or with other normative documents.