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PEOPLE'S REPUBLIC OF CHINA**

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**Environmentally conscious design -- Integrating environmental
aspects into design and development of electrotechnical
products**

(English Translation)

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Foreword

This standard is equivalent to IEC Guide 114.2005 "Environmental conscious design --- environmental aspects into product design and development electrician." Appendix A of this standard is the data appendix.

This standard by the National Standardization Technical Committee Environmental electrical and electronic products and systems (SAC/TC297) and focal points.

This standard drafting unit. Electrical Machinery Industry Beijing Technology and Economy Institute, Shenzhen Institute of Standards and Technology, Hebei Electric shares have Limited, Changshu Switchgear Manufacturing Co., Ltd., Shanghai Electric Cable Research Institute, Siemens (China) Co., Ltd., China Quality Certification Center, Beijing spectrum Physical and chemical testing centers Nigeria.

Introduction

Any product will have an impact on the environment, and its impact throughout the life cycle or the product may be one in which the ratio of phase occurs ---as raw material acquisition, manufacture, sale, use and disposal. These effects may be mild, or it may be significant; may be short-term, it may be long-term; may occur at the local, regional or global (or their collection).

Consumers, users, developers, and others concerned about the degree of product environmental aspects and environmental impacts in increasing. This standard the information provided also may benefit not directly involved in product design and development process of the relevant external parties.

Forecasting and identification of environmental aspects of the product lifecycle can be a complex task. Product Environmental factors should be with other factors (The use, performance, security, health, cost, marketability, quality, and legal and regulatory requirements) balance. In the context of the system in which the product Consider its function is very important.

The process of environmental aspects into product design and development should have continuity and flexibility to stimulate creativity and promote innovation. Make Based on the work of the relevant organizations can emphasize environmental issues in their policies and strategies in the policy.

Early identification of environmental factors and good planning can make the organization more effective in controlling environmental factors, a better understanding of their decision as to What environmental factors controlled by others. For example, the raw material acquisition stage or late stage of the product life.

Widespread use of electrical products to make environmental impact are more and more

attention. Many countries have issued concerning waste electrical and electronic equipment Wastes, hazardous substances and energy efficiency regulations.

This standard is intended to help product designers electrician to properly manage the design process related to environmental issues. About environmental aspects into production Principles of design and development of products has been expressed in the ISO 14062. This standard takes into account some of the characteristics of electrical products, including Some of the factors mentioned in ISO 14062, and therefore can be used independently.

This standard does not include environmental awareness for specific product-specific design requirements.

Environmentally conscious design Environmental aspects into product design and development electrician

1 Scope

This standard defines the concept of environmental aspects into product design and development electrician, and for all personnel involved in product design and development and other uses, and the type of organization, size, location and complexity irrelevant; for all new or changed electrical electronic design Preparation. This standard applies to those who are directly involved in product development, responsible for developing policy and participation in decision-making processes within the organization's staff.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (excluding corrections) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Study whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 19000-2000 Quality Management System - Fundamentals and vocabulary (idt ISO 9000:2000) GB/T 24001-2004 Environmental Management System Specification with guidance for use (ISO 14001:1996, IDT) GB/T 24040-1999 Environmental management - Life cycle assessment principles and framework (idt ISO 14040:1997) GB/T 20877-2007 standard electrical products introduced environmental factors guidelines (IEC Guide 109.2003, IDT) ISO 1043 (all parts), Plastics - Symbols and abbreviations ISO 11469:2000 Plastics and plastic products, general identification mark ISO 14062:2002 Environmental Management environmental aspects into product design and development

3 Terms and Definitions

The following terms and definitions apply to this standard.

User-replaceable parts equipment, manufacturers sell these parts directly in the market, for use in the device.

Note: Consumable Example. printer cartridges, photographic film.

The requirement translates into a predetermined product, process or system feature or a standardized set of procedures.

Note 1: The "design" and "development" are sometimes synonymously and sometimes used to define the entire design and development process at different stages.

[GB/T 19000-2000,3.4.4]

Note 2: Product development is the process of implementation of product design ideas, from planning to evaluation and then to market products; business strategy, market considerations, research methods and design factors are included in this process, so that products meet the practical use. Design and development also include improvements or modifications of existing products or add PROCESSES.

How to meet the performance specifications described by the set of functional requirements specification.

Product operating environment, including the relationship between them air, water, land, natural resources, plants, animals, people.