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People's Republic of China Electronic Industry Standard

SJ/Z —

**General Rule of Environment-Friendly Use Period of
Electronic Information Products
(draft)**

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Preface

The Appendix A of this standard is normative, Appendix B is reference materials.

This standard is managed by China Electronic Standardization Institute.

The organizations drew up this standard: China Electronic Standardization Institute (Chapter 1 – 5, Appendix A and overall, Lenovo (Beijing) Co. Ltd. (Chapter 6 and Appendix A), Beijing Nokia Mobile Telecommunication Co. Ltd. (Chapter 6 and Appendix A).

The organizations participate to draw up this standard: see Appendix B

Drafter:

Introduction

Due to the needs of technology and product functions, at present, there are some electronic information products (EIP) contain hazardous and toxic substances or elements such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE) in the materials. To prevent the above-mentioned hazardous and toxic substances or elements from leaking or mutating due to overusing then cause environmental pollution and damage to consumers and their properties, for ease of responsibility clarification for environmental incident caused by EIP, to facilitate the waste EIP goes into the recycling system promptly after being discarded, to standardize the EIP label, this standard is formulated according to the relevant requirement of “Management Methods for the Control of Pollution from Electronic Information Products” (MII command No. 39).

General Rule of Environment-Friendly Use Period of Electronic Information Products

1. Scope

This standard formulates the general rule of defining the Environment-Friendly Use Period for the electronic information products that contain the hazardous and toxic substance or element.

This standard applies to EIP sold in the territory of PRC.

2. Normative reference document

The clauses included in the following documents become clause of this standard when cited by this standard. For all dated documents, none of their modifications (excluding content corrections for printing errors) or revised editions will apply to this standard. However, each party that agrees and utilizes this standard should investigate the possibility of using the newest editions of these documents. The latest versions of all of the undated documents apply to this standard.

SJ/T xxxx- xxxx Labeling Requirement for EIP Pollution Control

SJ/T xxxx- xxxx Testing Methods for Hazardous and Toxic Substances in EIP

3. Term and Definition

Following terms and definitions apply to this standard.

The terms and definitions in SJ/T xxxx- xxxx

3.1 Technical Environment-Friendly Use Period

The EFUP defined according to practices or scientific method and experimental technique.

3.2 Notional Environment-Friendly Use Period

The EFUP defined with consideration of other concept of product use period.

3.3 Technical life

The average product lifetime according to product design, expressed with hours.

4. General Rules

4.1 Scope of the Period

The product with EFUP less than 5 years should use 1 year, 2 years, 3 years, 4 years and 5 years as EFUP; The product with EFUP greater than 5 years should use 5

years, 10 years, 15 years and 20 years as EFUP, and so on. When the number of EFUP for an EIP is not multiple of 5, should use the closest multiple number as EFUP.

4.2 Technical EFUP

4.2.1 General Rules

The producer or importer of EIP who has adequate practical experience or scientific experimental method should daopt the Technical EFUP for its product.

4.2.2 Practice Method

Under the normal use condition of the EIP, when the cases/pieces number of hazardous and toxic substances or elements leak or mutata exceed 5, the shortest rounding number of year is the Technical EFUP of this product.

4.2.3 Experimental Method

When there is not case under the normal use condition of the EIP the hazardous and toxic substances or elements leak or mutata, the EFUP is defined according to the method and experimental technique in Chapter 6 of this standard.

4.3 Notional EFUP

4.3.1 General Rules

If the producer or importer of EIP can not define the Technical EFUP under current practical and technical condition, should adopt Notional EFUP for the product.

4.3.2 Technical Life Method

The formula to calculate EFUP by using product technical life:

$$\text{EFUP} = \text{Technical Life} / (\text{average daily working time} \times 365) \quad (1)$$

$$\text{EFUP} = \text{Technical Life} / (\text{average daily working time} \times 365) \times 125\% \quad (2)$$

Formula (1) applies to EIP that can not be repaired; formula (2) applies to EIP that can be repaired.

4.3.3 Safe Use Period Method

If the product has the Safe Use Period, should use the Safe Use Period as the EFUP.

4.3.4 Comparison Method

The new EIP without defined technical life and safe use period should adopt the EFUP of same or similar category product as its EFUP.

5. Use Condition

Following use condition should be considered when define the EFUP of a EIP: range of environment temperature, range of environment pressure, range of environment humidity, mode of product setup, time of connecting to electricy, product use frequency, associated use condition, product storage condition, etc.

6. Method and Experimental Technique

6.1 Temperature Cycle Test (IEC 60068-2-14 Nb)

6.1.1 Application

This method applies to testing of EFUP of electric wire.

6.1.2 Testing Method

Press two board on a wire, the hazardous and toxic substance or element will be transfer to the board within certain time and temperature, use the Testing Method Standard to test the hazardous and toxic substance or element on the board, and then reckon the EFUP of the wire. (Eddie Li, LTK Co. Ltd.)

Appendix A
(Normative)

Average Environment-Friendly Use Period of Common EIP

1. Electronic Radar Product
2. Electronic Communication Product
 - Cell phone 5 years
 - Digital Exchange/Switching Platform 50 years
3. Broadcast and Television Product
 - CRT color TV set 7 years
4. Computer Product
5. Household Electronic Product
6. Electronic Measuring Instrument Product
7. Electronic Dedicated Product
8. Electronic Element and Device Product
9. Electronic Application Product
10. Electronic Materials Product

Appendix B
(Reference Materials)

Name List of Organizations Participate Drawing up This Standard

Reference Document
