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**Guide for Pollution Control of Waste Electrical and
Electronic Products' Take-Back and Treatment**

废弃电器电子产品回收处理污染控制导则

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Forward

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

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Drafting organizations of this Standard: China Household Electric Appliance Research Institute, Shenzhen GEM Co., Ltd., and Qingyuan Dongjiang Environment Technology Co. Ltd..

Participating drafting organizations of this Standard: China Quality Certification Centre, Tsinghua University, Sichuan Changhong Electric Co., Ltd., Shanghai Xin Jinqiao Environmental Protection Co., Ltd., Huizhou TCL Environmental Protection and Resource Co., Ltd., Jiangxi Green Beauty Resource Recycling Co., Ltd., Beijing Hazardous Waste Disposal Center, and Beijing Huaxinluyuan Environmental Protection Industry Development Co., Ltd..

Chief drafting staffs of this Standard: Tian Hui, Liu Ting, Li Jinping, Liu Tao, Yu Conghai, Xiang Dong, Luo Mingfei, Ye Wei, Zhang Haitao, Pan Xiaoyong, Yang Yichen, Song Jianfeng, Yuan Jie, He Yilin, and Shan Mingwei.

Guide for Pollution Control of Waste Electrical and Electronic Products' Take-Back and Treatment

1 Scope

This Standard specifies the terms and definitions, basic principles of the pollution control of waste electrical and electronic products' take-back and treatment, basic requirements for the pollution control of the waste electrical and electronic products' take-back, basic requirements for the pollution control of the waste electrical and electronic products' treatment, requirements of information management system, and personnel management requirements.

This Standard is applicable to the take-back and treatment enterprises of waste electrical and electronic products, and the industry authorities to regulate and manage the take-back and treatment activities against the waste electrical and electronic products; other enterprises can refer to this.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GB/T 18597 Standard for Pollution Control on Hazardous Waste Storage

GB/T 18599 Standards for Pollution Control on the Storage and Disposal Site for General Industrial Solid Wastes

HJ/T 91 Technical Specifications Requirements for Monitoring of Surface Water and Waste Water

HJ/T 397 Technical Specifications for Emission Monitoring of Stationary Source

HJ 640 Technical Specifications for Environmental Noise Monitoring-Routine Monitoring for Urban Environmental Noise

3. Terms and Definitions

The following terms and definitions are applicable to this document.

3.1 Waste electrical and electronic product

It indicates the electrical and electronic products (including all parts, members, components and etc. consisting of the products) that the owner are no longer to use, and has been abandoned or discarded, and the disqualified and rejected products generated during the producing, distributing and using processes.

Note: the definition in Clause 3.2 of GB/T 21474-2008 shall be amended.

3.2 Take-back

It indicates, for the purpose of **recovery (3.10)**, the **collection (3.5)** and **storage (3.6)** activities of the **waste electrical and electronic product (3.1)**.

3.3 Treatment

It indicates decontamination, dismantling, and recycling activities against the **waste electrical and electronic product (3.1)**.

Note: the definition in Clause 3.9 of GB/T 23685-2009 shall be amended.

3.4 Pollution control

It indicates any measures that is taken for the purposes of reducing or eliminating the **selected parts (3.13)** generated in the waste electrical and electronic product, and other pollutants generated during the recycling and disposal processes.

3.5 Collection

It indicates the collection, classification, and arrangement activities against the **waste electrical and electronic product (3.1)**.

Note: the definition in Clause 3.3 of GB/T 23685-2009 shall be amended.

3.6 Storage

It indicates, for the purposes of **collection (3.5)**, transportation, **disassembly (3.8)**, **recovery (3.10)** and **disposal (3.11)**, temporary storage activities of the **waste electrical and electronic product (3.1)** in the particular qualified site.

Note: the definition in Clause 3.4 of GB/T 23685-2009 shall be amended.

3.7 Reuse

It indicates, on the premise of no violating the relevant laws, regulations, and standards, the **waste electrical and electronic product (3.1)**, or its parts, members, and components shall be continued to be used for the original purposes, or which is continued to be used for the original purposes after the maintenance.

4 Basic Principles

4.1 The take-back and treatment activities against the waste electrical and electronic product shall meet the management requirements of Regulations for Management of Recycling Disposal of Waste Electric and Electronic Products, and other relevant laws and regulations.

4.2 On the premise of no violating the relevant laws, regulations or standards, give priority to the reuse of waste electrical and electronic products and components.

4.3 The environmental protection technologies, circular economy technologies, and advanced and applicable technologies for comprehensive utilization of the renewable resources, which are encouraged to develop by China shall be taken.

4.4 The environmental monitoring system against the characteristic pollutants and pollutant sources during the take-back and treatment of waste electrical and electronic product shall be established.

4.5 National requirements for labor safety and human health shall be met.

5 Basic Requirements for the Pollution Control of Waste Electrical and Electronic Products' Take-Back

5.1 The waste electrical and electronic products shall be collected and stored by types (see Appendix A); and they shall be identified.

5.2 The waste electrical and electronic products shall not be disassembled during the recycling process.

5.3 When collect the products containing display, they shall be sorted and stored according to various display structures, such as cathode ray tube, liquid crystal, plasma and etc.

5.4 When collect the refrigeration equipment, the integrity of the refrigeration system shall be checked, and then conduct sorted and separate collection and identification. During the transporting and storing process of the refrigeration equipment with intact refrigeration system, necessary protective measures shall be taken for the benefit of the recycling of refrigerant and compressor lubricant.

5.5 When transporting and storing the products that may contain residual liquid, necessary measures shall be taken to avoid the leakage of the liquid.

5.6 The transportation tools of the waste electrical and electronic products shall take the protective measures and water-and-oil-collecting measures to avoid the dropping

6.7 Identify and conduct sorted management for the selected parts (see Appendix C) generated in the treatment process of the waste electrical and electronic products. The selected parts in the national hazardous waste list, according to the relevant provisions of GB 18597, shall be identified and managed as per the hazardous waste.

6.8 Identify and conduct sorted management for the selected treatment parts (see Appendix D) generated in the treatment process of the selected parts. If the selected parts can't be handled independently, then they shall handed-over to relevant qualified enterprise to dispose or conduct the harmless utilization.

6.9 The non-selected parts, according to relevant provisions of GB 18599, shall be treated and managed as per the common industrial soil waste. If they can't be handled independently, they shall be handed-over to resource comprehensive utilization enterprises that meet the environmental requirements for recycling.

7 Requirements of Information Management System

7.1 Information management requirements

Waste electrical and electronic product treatment enterprises shall establish information management system against the waste electrical and electronic products, selected parts, and selected treatment parts, including the types, names, sources, weight, time, treatment processes, disposal situations and etc. of the waste electrical and electronic products, selected parts, and selected treatment parts. The selected parts and selected treatment parts in the hazardous waste list shall be identified as per the hazardous waste; while their treatment and disposal information shall be known to the public through a variety of ways, and their original records shall be kept for at least 3 years.

As for the selected parts that can't be handled independently, waste electrical and electronic product treatment enterprises shall establish information track and management system, and keep the certificate documents that prove the treatment enterprises are authorized to conduct the regulated treatment against the selected parts.

7.2 Information management system on the environmental monitoring data of characteristic pollutants and pollution sources

The enterprise shall regularly conduct the environmental monitoring against the characteristic pollutants and pollution sources, and establish the information management system on the environmental monitoring data of characteristic pollutants and pollution sources. According to the relevant provisions of HJ/T 91, HJ/T 397, and HJ 640, waste water, waste gas, noise and other pollution sources in and around the plant shall be monitored at least four times annually.

Appendix D

(Informative)

Characteristic Pollutants and Selected Treatment Parts that may be Generated during the Treatment Process of Selected Parts

Different treatment processes of selected parts may generate different characteristic pollutants. See Table D.1 for characteristic pollutants and selected treatment parts that may be generated during the treatment process of selected parts.

Table D.1 Examples of Characteristic Pollutants and Selected Treatment Parts that may be Generated during
the Treatment Process of Selected Parts

Names of Selected Parts	Treatment Processes	Characteristic Pollutants	Selected Treatment Parts
Color Cathode Ray Tube (CRT)	Dry screen and cone separation process	Dust, lead and its compound	Phosphor, and lead-containing glass
Color Cathode Ray Tube (CRT)	Wet screen and cone separation process	Lead, cadmium, nickel, waste liquid, and sludge	Lead-containing glass
Black-and-white cathode ray tube	Fluorescent lamp recycling process	Dust	Phosphor
Printed Circuit Board (PCB)	Dry crushing and sorting process	Dust, lead and its compound, zinc and its compound	Non-metal materials
	Wet crushing and sorting process	Copper, lead, arsenic, cadmium, and waste liquid	Non-metal materials
Computer power supply box	Manual disassembly	Dust	Printed Circuit Board

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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