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NATIONAL STANDARD OF THE
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GB/T 13015-2017

Replacing GB 13015-91

**Standard for pollution control on Polychlorinated
Biphenyls (PCBs)-contaminated waste**

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**Issued by: Ministry of Environmental Protection of the People's Republic
of China;**

**General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China.**

Table of Contents

Foreword.....	3
1 Scope of application.....	5
2 Normative references.....	5
3 Terms and definitions	6
4 Categories of PCBs-contaminated wastes.....	8
5 Technical requirements for the harmless management of the PCBs-contaminated wastes	8
6 Pollution control requirements for the harmless disposal of PCBs-contaminated wastes	10
7 Environmental monitoring requirements during the harmless disposal of PCBs-contaminated wastes.....	10
8 Safety protection and emergency response requirements.....	11
9 Implementation and supervision	12

Foreword

To implement laws and regulations such as “Environment Protection Law of the People's Republic of China” and “Law of the People’s Republic of China on the Prevention and Control of Environmental Pollution Caused by Solid Wastes”, to strengthen the environmental supervision and management of the PCBs-contaminated wastes, to regulate the cleaning, storage, transportation and disposal processes of the Polychlorinated Biphenyls-contaminated wastes, this Standard is formulated.

This Standard specifies the entire process’ environmental protection requirements of the Polychlorinated Biphenyls-contaminated wastes, such as the process of cleaning, collection, packaging, transportation, temporary storage, storage and harmless treatment disposal.

This Standard was first published in 1991. This is the first revision.

The main contents of this revision are as follows:

- Redefine the PCBs-contaminated wastes;
- Add the category regulation of the Polychlorinated Biphenyls-contaminated wastes, as well as the requirements for cleaning, packaging, harmless treatment disposal, environmental monitoring, safety protection and emergency response;
- Add the technical requirements for the pollution control on co-processing of Polychlorinated Biphenyls-contaminated wastes in cement kiln;
- Update the monitoring analysis methods for the Polychlorinated Biphenyls-contaminated wastes.

Since the date of implementation of this Standard, the "Control standard on polychlorinated biphenyls for waste slags " (GB 13015-91) shall be abolished.

This Standard was formulated by the Department of Soil Environment Management and the Department of Science, Technology and Standards of the Ministry of Environmental Protection of the PRC.

The main drafting organizations of this Standard: Chinese Research Academy of Environmental Sciences, Beijing Normal University, Shenyang Academy of Environmental Sciences, Tsinghua University AND the Foreign Economic Cooperation Office of the Ministry of Environmental Protection.

This Standard was approved by the Ministry of Environmental Protection on May 27, 2017.

This Standard is implemented as of October 1, 2017.

Standard for pollution control on Polychlorinated Biphenyls(PCBs)-contaminated wastes

1 Scope of application

This Standard specifies the categories of Polychlorinated Biphenyls-contaminated wastes, as well as the entire process' environmental protection requirements of the Polychlorinated Biphenyls-contaminated wastes, such as the process of cleaning, collection, packaging, transportation, temporary storage, storage and harmless treatment disposal.

This Standard is applicable to the pollution control and supervision & management of the entire process of classification, harmless management and harmless disposal of Polychlorinated Biphenyls-contaminated wastes.

For the wastes whose content of Polychlorinated Biphenyls is less than 50mg/kg, they shall be performed the harmless management according to general industrial solid wastes.

2 Normative references

The following documents contain the provisions which, through reference in this Standard, become the provisions of this Standard. For undated reference documents, the latest versions apply to this Standard.

GB 5085.3 Identification standards for hazardous wastes - Identification for extraction toxicity

GB 5085.6 Identification standards for hazardous wastes - Identification for toxic substance content

GB 8978 Integrated wastewater discharge standard

GB 12463 General specifications for transport packages of dangerous goods

GB 18484 Pollution control standard for hazardous wastes incineration

GB 18597 Standard for pollution control on hazardous waste storage

GB 18598 Standard for pollution control on the security landfill site for hazardous wastes

GB 30485 Standard for pollution control on co-processing of solid wastes in cement kiln

4 Categories of PCBs-contaminated wastes

The PCBs-contaminated wastes include the following seven categories:

- I. The PCBs-containing equipment not in service, or the sealed PCBs-containing equipment;
- II. Liquid Polychlorinated Biphenyls or the non-aqueous liquid wastes containing the Polychlorinated Biphenyls;
- III. The immersion wastewater at sealed point of the PCBs-contaminated wastes, and other cleaning wastewater;
- IV. PCBs-contaminated soil which is performed by the ectopic and harmless disposal;
- V. The original package when sealing the PCBs-containing equipment;
- VI. The original building materials when sealing the PCBs-containing equipment, such as the cement, rock, slag and brick;
- VII. Other wastes, substances and articles, which contains or are contaminated with the Polychlorinated Biphenyls, such as rags, absorbent materials, contaminated protective clothing and gloves.

5 Technical requirements for the harmless management of the PCBs-contaminated wastes

5.1 Cleaning and collection

5.1.1 It shall set the alert area at the sealed point of the PCBs-contaminated wastes before the start of the cleaning work, and the on-site protection shall be prepared well. The cleaning and collection plan shall go through the verification, and it shall be recorded by the administrative department of environmental protection above the county level.

5.1.2 When performing the collection, the liquid substances contained in PCBs-contaminated wastes shall be recycled firstly; and then it shall be adsorbed by the adsorbent materials; finally, remove out the solid substances in it, and package them respectively according to the categories of the wastes.

5.1.3 The collection area shall have rain protection facilities. If the severe weather conditions occur, such as the heavy rain and windy weather, the collection operation shall be stopped.

5.2 Packaging and transportation

chlorine shall not exceed 0.04%; the removal rate of the burning of Polychlorinated Biphenyls shall be $\geq 99.9999\%$.

5.4.3 According to different waste forms and pollution degrees, other disposal technologies such as the thermal desorption and chemical dechlorination can be used to dispose the PCBs-contaminated wastes; however, the harmless disposal project can be implemented only after performing the environmental impact assessment and obtaining the approval.

6 Pollution control requirements for the harmless disposal of PCBs-contaminated wastes

6.1 The discharge of pollutants from the process of incineration disposal of PCBs-contaminated wastes shall be performed in accordance with the requirements in GB 18484. The discharge of pollutants from the process of the co-processing of cement kiln shall be performed in accordance with the requirements in GB 30485.

6.2 For the landfill disposal of the PCBs-contaminated wastes, in addition to meeting the admission requirements of GB 18598, in the landfill waste, the content of Polychlorinated Biphenyls shall be $\leq 10\text{mg/kg}$.

6.3 For the waste water discharge during the process of the harmless disposal of PCBs-contaminated wastes, in addition to meeting the admission requirements of GB 8978. The concentration of Polychlorinated Biphenyls in the discharged waste water shall be $\leq 0.003\text{mg/L}$.

6.4 The PCBs-containing transformers can be used for resources after being dismantled for harmless cleaning, however its surface concentration shall be $\leq 10\mu\text{g}/100\text{cm}^2$.

7 Environmental monitoring requirements during the harmless disposal of PCBs-contaminated wastes

7.1 The disposal enterprises shall conduct pollution-discharge monitoring on the entire process of harmless disposal of PCBs-contaminated wastes in accordance with relevant laws and regulations. The monitoring of the incineration disposal process of PCBs-contaminated wastes shall be performed in accordance with the requirements of GB 18484. The monitoring of cement kiln co-disposal shall be performed in accordance with the requirements of GB 30485. The monitoring of sudden environmental events shall be performed in accordance with the requirements of HJ 589.

7.2 The monitoring of PCBs-contaminated wastes before cleaning includes the pollution boundary of Polychlorinated Biphenyls, and the monitoring of pollution degree; the monitoring after cleaning includes the monitoring of cleaning effects.