



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Discharge standard of water pollutants for electronic industry

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Foreword

This standard is formulated, to implement the Environmental Protection Law of the People's Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China, the Marine Environmental Protection Law of the People's Republic of China and other laws and regulations; to prevent and control environmental pollution, improve environmental quality, promote technological progress and sustainable development of the electronics industry.

This standard specifies the water pollutant discharge control requirements, monitoring requirements, supervision and management requirements for electronic industrial enterprises, production facilities or research and development lines. The water pollutant discharge management of centralized wastewater treatment facilities in the electronics industry is also applicable to this standard.

The discharge of atmospheric pollutants (including odorous pollutants) and environmental noise from electronic industrial enterprises, production facilities or research and development lines, centralized wastewater treatment facilities in the electronics industry shall be subject to the corresponding national pollutant discharge standards; the identification, treatment, disposal of solid wastes shall be subject to the

corresponding national standards on solid waste pollution control.

This standard is published for the first time.

For the new electronic industrial enterprises from July 1, 2021, and the existing enterprises from January 1, 2024, the water pollutant discharge control shall be implemented in accordance with the provisions of this standard; the relevant provisions of the Integrated wastewater discharge standard (GB 8978-1996) and the Discharge standard of pollutants for electroplating (GB 21900-2008) shall no longer be implemented. Local governments may implement this standard in advance with the approval of local provincial people's governments, according to local ecological and environmental protection needs and economic and technical conditions.

This standard is the basic requirement for the control of water pollutant discharges from the electronics industry. Provincial people's governments may formulate local pollutant discharge standards for items not specified in this standard; for items already specified in this standard, they may formulate local pollutant discharge standards that are stricter than this standard.

This standard was formulated under the organization by the Water Ecology and Environment Department and the Regulations and Standards Department of the Ministry of Ecology and Environment.

The main drafting organizations of this standard. China Electronics Engineering Design Institute Co., Ltd., Environmental Standards Institute of the Ministry of Ecology and Discharge standard of water pollutants for electronic industry

1 Scope

This standard specifies the requirements for water pollutant discharge control, monitoring, supervisory management for the electronics industry.

This standard applies to the management of water pollutant discharge from existing electronic industrial enterprises, production facilities or research and development lines, as well as the environmental impact assessment, environmental protection facility

design, completion environmental protection acceptance, issuance of pollutant discharge permits, water pollutant discharge management after the electronic industrial construction projects are put into operation.

The management of water pollutant discharge from centralized wastewater treatment facilities in the electronic industry is applicable to this standard.

The water pollutant discharge control requirements specified in this standard apply to the behavior of electronic industrial enterprises and centralized wastewater treatment facilities in the electronic industry directly or indirectly discharging water pollutants outside their legal boundaries.

2 Normative references

The content of this standard refers to the following documents or clauses therein. For all referenced documents without a year, the latest version applies to this standard.

GB 6920 Water quality - Determination of pH value - Glass electrode method

GB 7466 Water quality - Determination of total chromium - Potassium permanganate oxidation-diphenylcarbohydrazide spectrophotometric method

GB 7467 Water quality - Determination of chromium (6) - 1.5

Diphenylcarbohydrazide spectrophotometric method

GB 7470 Water quality - Determination of lead - Spectrophotometric method with dithizone

GB 7471 Water quality - Determination of cadmium - Spectrophotometric method with dithizone

boards and flexible boards, which can be divided into single-sided printed circuit boards, double-sided printed circuit boards, multi-layer printed circuit boards, rigid-flexible printed circuit boards, high-density interconnector (HDI) printed circuit boards.

3.5 Semiconductor device

Electronic devices with specific functions, which are manufactured using the special electrical properties of semiconductor materials. It includes two major categories of

products. discrete devices and integrated circuits.

3.6 Display device

Device that presents information for visual perception based on electronic means. It includes thin film transistor liquid crystal display devices, low-temperature polycrystalline silicon thin film transistor liquid crystal display devices, organic light-emitting diode display devices, vacuum fluorescent display devices, field discharge display devices, plasma display devices, curved display devices, flexible display devices.

3.7 Photoelectronic device

Various functional devices made using the semiconductor light-electron (or electric-photon) conversion effect. It includes light-emitting diodes; photoelectric converters and photodetectors in semiconductor optoelectronic devices; gas laser devices, semiconductor laser devices, solid-state laser devices, electrostatic induction devices in laser devices; optical communication circuits and other devices; semiconductor lighting devices, etc.

3.8 Electronic terminal product

Electronic products or components with independent application functions, which are assembled based on printed circuit board assembly technology. It includes communication equipment, radar equipment, radio and television equipment, electronic computers, audio-visual equipment, etc.

3.9 Existing facility

Electronic industrial enterprises, production facilities or research and development lines that have been completed and put into production or whose environmental impact assessment documents have been approved before the implementation of this standard, as well as centralized sewage treatment facilities for the electronic industry.

3.10 New facility

New, rebuilt, expanded electronic industry or electronic industrial sewage treatment