

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

HJ 945.1-2018

**Technical guideline for the development of national air pollutant
emission standards
(English Translation)**

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Foreword

To implement the "Environmental Protection Law of the People's Republic of China" this standard is formulated and revised.

This standard stipulates the basic principles and technical routes for the formulation of emission standards for fixed pollution sources, and the main technical contents are indeed the cost-benefit analysis of the standard implementation, the structure of the standard text, and the main content of the standard preparation instructions.

This standard is the first release.

Appendix A of this standard is an informative annex.

This standard is formulated by the Department of Regulation and Standards of the Ministry

of Ecology and Environment.

This standard was drafted. China Academy of Environmental Sciences.

This standard is approved by the Ministry of Ecology and Environment on December 19, 2018.

This standard has been implemented since January 1, 2019.

This standard is explained by the Ministry of Ecology and Environment.

Technical guidelines for the formulation of national air pollutant discharge standards

1 Scope of application

This standard stipulates the basic principles and technical routes for the formulation of emission standards for fixed pollution sources, and the main technical contents are indeed Requirements, standard implementation cost-benefit analysis, standard text structure and standard preparation instructions, etc.

This standard applies to the revision and revision of air pollutant discharge standards in fixed pollution source countries. Local pollutant emission standards for fixed pollution sources the standard revision can be referred to this standard.

2 Normative references

The contents of this standard refer to the following documents or their terms. For undated references, the valid version applies to this standard.

quasi.

GB 3095 Ambient Air Quality Standard GB/T 3840 Technical method for establishing local air pollutant emission standards GB/T 16157 Determination of particulate matter in fixed source exhaust gas and sampling method of gaseous pollutants HJ 75 Fixed Pollution Source Flue Gas (SO₂, NO_x, Particulate Matter) Emissions Continuous Monitoring Technical Specification HJ 168 Technical Guidelines for Standardization and Revision of Environmental Monitoring and Analysis Methods HJ 565 Environmental Protection Standards Compilation Technical Guide HJ 2300 Guidelines for the preparation of feasible technical guidelines for pollution prevention HJ/T 55 Technical Guidelines for the Monitoring of Unorganized Emissions of Air Pollutants HJ/T 397 Fixed Source Exhaust Gas Monitoring Technical Specification Measures for the Administration of the Revision and Revision of National Environmental Protection Standards (Guohuan Regulation Technology [2017] No. 1) "Guidelines for the Implementation of National Pollutant Discharge Standards Implementation (Trial)" (Circular Science and Technology [2016] No. 94) List of Priority Control Chemicals (Notice of the Ministry of Environmental Protection, Ministry of Industry and Information Technology, National Health and Family Planning Commission) no. 83 of

2017) Hazardous Chemicals Catalogue (Safety Regulatory Authority Announcement No. 5 of 2015) Measures for the Automatic Monitoring and Control of Pollution Sources (Order No. 28 of the State Environmental Protection Administration) Measures for the Administration of Environmental Monitoring (Order No. 39 of the State Environmental Protection Administration)

3 Terms and definitions

The following terms and definitions apply to this standard.

Air pollutant emission standards in order to improve the quality of the environment, combined with technical, economic and environmental characteristics, the types, concentrations and numbers of atmospheric pollutants discharged into the environment Restrictions on the limits of the quantity and other factors that cause harm to the environment, monitoring methods and monitoring methods.

Fixed source of stationary sources all kinds of industrial enterprises, places, production facilities, fixed equipment, etc. that emit atmospheric pollutants are referred to as fixed sources.

Air pollutants emission standards for industries Fixed source air pollutant emission standards applicable to a specific industry.

General air pollutants emission standards for general facilities Fixed source air pollutant emission standards applicable to general production processes, equipment, and operating processes in various industries.

Integrated emission standards for air pollutants Applicable to fixed source air pollutant discharge standards outside the scope of application of industrial and general air pollutant emission standards.

Existing sources of stationary sources A fixed source of production, approval or auditing or filing has been completed before the date of implementation of the standard.

New source of emissions Fixed source construction projects for new construction, reconstruction and expansion that have passed the examination, approval or filing of environmental impact assessment documents since the date of implementation of the standards Head.

Special emission limit values of air pollutants According to the requirements of environmental protection work, the density of land development has been higher, the environmental carrying capacity has begun to weaken, or the environmental capacity is relatively Small areas, fragile ecological environment, areas prone to serious environmental pollution problems and requiring special protection measures, to strictly control enterprises Limits of atmospheric pollutant emissions set by pollutant discharge behaviour.

Unorganized emission Air pollutants do not pass through the irregular discharge of the exhaust pipe.

3.10

Enterprise boundary

The legal boundary of an industrial enterprise. If it is difficult to determine the legal boundary, it refers to the actual land occupation boundary.

3.11

Oxygen content

When the fuel is burned, the excess free oxygen contained in the flue gas is usually expressed as a percentage of dry basis.

3.12

Benchmark oxygen content A reference value for calculating the oxygen content specified by the concentration of atmospheric pollutants from a combustion source.

3.13

Exhaust volume

The amount of exhaust gas from a fixed source that is discharged into ambient air, including various exhaust gases that are directly and indirectly related to the production process or equipment.

3.14

Benchmark exhaust volume per unit product the upper limit of the exhaust gas volume of the production unit product specified for the approval of the concentration of atmospheric pollutants.

4.1 Legal and supporting principles

The standard shall regulate the emission conditions allowed by law, and the requirements specified in the standards shall comply with the requirements of various national laws and regulations.

Support the implementation of environmental impact management systems such as environmental impact assessment, pollutant discharge permit, total amount control, environmental protection tax, and supervision and enforcement.

4.2 Green and Leading Principles

Standards should fully consider national economic and social development planning and ecological environmental protection planning, industrial development strategic planning and