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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 32151.54-2025

Requirements for greenhouse gas emissions accounting and reporting - Part 54: Industrial sulphuric acid enterprises

温室气体排放核算与报告要求 第54部分：工业硫酸企业

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Standardization Administration of the PRC

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1 Scope

GB/T 32151.54-2025 is the Chinese national standard covering accounting the emissions of a sulphuric acid plant - the boundary, the fuel and electricity, the process emissions and the credit for the heat exported, since a contact plant is a net energy producer and the accounting has to reflect that honestly. Part 54 of the sector accounting series, first edition. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the accounting boundaries, measurement and monitoring requirements, accounting procedures, and accounting methods for greenhouse gas emissions from industrial sulfuric acid enterprises. Law, data quality management, report content and format. This document applies to the accounting and reporting of greenhouse gas emissions from industrial sulfuric acid plants.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 210 Industrial Sodium Carbonate

GB/T 476 Methods for the determination of carbon and hydrogen in coal

GB/T 1606 Industrial Sodium Bicarbonate

GB/T 2469 Determination of carbon content in pyrite and sulfur concentrate by gravimetric method of caustic soda and asbestos

GB/T 15316 General Technical Rules for Energy Conservation Monitoring

GB 17167 General Rules for the Configuration and Management of Energy Measuring Instruments in Energy-Using Units

GB/T 23111 Non-automatic weighing instruments

GB/T 32150 General Rules for Greenhouse Gas Emission Accounting and Reporting by Industrial Enterprises

3 Terms and Definitions

The terms and definitions defined in GB/T 32150 and the following terms and definitions apply to this document.

3.1 Greenhouse gases Naturally occurring and human-generated elements in the atmosphere that can absorb and disperse pollutants produced by the Earth's surface, atmosphere, and clouds. Gaseous components that radiate within the infrared spectrum.

Note. The greenhouse gas mentioned in this document is carbon dioxide (CO2). [Source: GB/T 32150-2015, 3.1, with modifications]

3.2 Using pyrite, sulfur, smelting flue gas, gypsum, and other sulfur-containing materials such as hydrogen sulfide, ferrous sulfate, waste sulfuric acid, and waste sulfur as raw materials, the main... Enterprises that produce industrial sulfuric acid products.

3.3 sulfuric acid derivatives Process gas drawn from industrial sulfuric acid production units is further processed to produce deep-processed products.

Note. Deep-processed products include liquid sulfur dioxide, liquid sulfur trioxide, and refined sulfuric acid, etc.

7 Data Quality Management

8.Report Content and Format Appendix A (Informative) Schematic Diagram of Greenhouse Gas Emission Accounting Boundaries for Industrial Sulfuric Acid Enterprises

9 Appendix B (Informative) Report Format Template

10 Appendix C (Informative) Default values for relevant parameters.

14 Reference 18

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 54 of GB/T 32151, "Requirements for Accounting and Reporting of Greenhouse Gas Emissions". GB/T 32151 has been published as follows: Part 2.

1.Power Generation Enterprises;

2.Power Grid Enterprises;

3.Magnesium Smelting Enterprises;

4.Aluminum Smelting Enterprises;

5.Steel Production Enterprises;

6.Civil Aviation Enterprises;

7.Flat Glass Manufacturers;

8.Cement Production Enterprises;

9.Ceramic Manufacturing Enterprises;

10.Chemical Production Enterprises;

11.Coal Production Enterprises;

12.Textile and Apparel Enterprises;