ICS 13.020.10
CCS Z04

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 32151.43-2024

Requirements of the greenhouse gas emissions accounting and reporting - Part 43: Lead smelting enterprise

温室气体排放核算与报告要求 第43部分：铅冶炼企业

Issued on: September 29, 2024 **Implemented on: April 1, 2025**

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1.Structure and drafting rules for standardization documents" Drafting. This document is Part 43 of GB/T 32151 Greenhouse Gas Emissions Accounting and Reporting Requirements. Lower part.

1.Power generation enterprises;

2.Grid enterprises;

3.Magnesium smelting enterprises;

4.Aluminium smelting enterprises;

5.Iron and steel production enterprises;

6.Civil aviation enterprises;

7.Flat glass production enterprises;

8.Cement production enterprises;

9.Ceramic production enterprises;

10.Chemical production enterprises;

11.Coal production enterprises;

12.Textile and clothing enterprises;

1 Scope

GB/T 32151.43-2024 is the lead smelting part of the Chinese greenhouse gas accounting and reporting series. China smelts more lead than the rest of the world combined, from both concentrate and, increasingly, from recycled battery scrap, and the two routes have quite different emission profiles: the primary route carries process emissions from the reduction of the ore with carbonaceous reductants and from the flux carbonates, while the secondary route is dominated by fuel and by the organic material entering with the scrap. The standard sets the accounting boundary of a lead smelting enterprise, the measurement, monitoring and testing requirements, that is what must be weighed, metered and analysed, and the calculation steps and methods for the fuel combustion, process and purchased energy emissions, followed by the data quality management and the report. Informative annexes give the default parameter values and the data quality guidance. For a smelter, an auditor or a buyer of Chinese lead asking for a carbon figure, this is the method behind the number. It takes effect on 1 April 2025.

This document specifies the accounting boundaries, measurement and monitoring/detection requirements, accounting steps and methods of greenhouse gas emissions from lead smelting enterprises. Data quality management and report content and format. This document applies to lead concentrate, crude lead, lead-containing materials (waste lead storage batteries, metallic lead waste and other lead-containing materials) as raw materials. Calculation and reporting of greenhouse gas emissions from lead smelting enterprises, including mineral lead smelting enterprises and recycled lead smelting enterprises.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 210 Industrial Sodium Carbonate

GB/T 213 Method for determination of calorific value of coal

GB/T 384 Determination of calorific value of petroleum products

GB/T 6422 Guidelines for energy testing of energy-consuming equipment

GB/T 11062 Calculation method for calorific value, density, relative density and Wobbe index of natural gas

GB/T 15316 General technical rules for energy conservation monitoring

GB 17167 General rules for the allocation and management of energy metering instruments in energy-consuming units

GB/T 20902 Requirements for the equipment and management of energy metering instruments in non-ferrous metal smelting enterprises

GB/T 22723 Determination of energy of natural gas

GB/T 23111 Non-automatic weighing instruments

GB/T 32151.14 Carbon emission accounting and reporting requirements Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Greenhouse gas The natural and human-caused gases in the atmosphere that absorb and emit radiation from the Earth's surface, atmosphere, and clouds. The gaseous component of radiation with wavelengths in the infrared spectrum.

Note. The greenhouse gases referred to in this document include only carbon dioxide (CO2). [Source: GB/T 32150-2015, 3.1, modified]

3.2 reporting entity A legal entity that emits greenhouse gases or an independent accounting unit that is deemed to be a legal entity. [Source: GB/T 32150-2015, 3.2]