ICS 13.020.10
CCS Z04

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 32151.22-2024

Requirements of the greenhouse gas emissions accounting and reporting - Part 22: Livestock enterprise

温室气体排放核算与报告要求 第22部分：畜禽养殖企业

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 22 of GB/T 32151.GB/T 32151 has been published in the following parts.

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 32151.22-2024 is the livestock part of the Chinese greenhouse gas accounting and reporting series, the family of standards that tells each kind of enterprise how to compute and report its emissions. Livestock is an unusual case within that family because most of the emission is not combustion: it is methane from enteric fermentation and methane and nitrous oxide from manure management, and the answer depends on the species, the productivity of the animal, the feed and above all on how the manure is stored and treated. The standard sets the accounting boundary, that is which emission sources belong to the reporting enterprise, then the calculation steps and methods for each source, then the data quality management and the content and format of the report. Informative annexes give the reporting template, the default values of the parameters an enterprise that cannot measure its own may use, and the data quality guidance. As Chinese emissions reporting extends beyond the power sector into agriculture, this is the document a livestock enterprise will be required to work to. It takes effect on 1 April 2025.

This document specifies the accounting boundaries, accounting steps and methods, data quality management and other related information for greenhouse gas emissions from livestock and poultry farming enterprises. management, report content and format. This document applies to the accounting and reporting of greenhouse gas emissions from livestock and poultry farming enterprises.

2 Normative references

The contents of the following documents constitute 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 213 Method for determination of calorific value of coal

GB/T 384 Determination of calorific value of petroleum products

GB/T 6435 Determination of moisture in feed

GB/T 11891 Water quality - Determination of Kjeldahl nitrogen

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

GB/T 22723 Determination of energy of natural gas

GB/T 32150 General principles for accounting and reporting of greenhouse gas emissions from industrial enterprises

GB/T 32760 Determination of methane emissions from ruminants - Sulfur hexafluoride tracer - gas chromatography method

NY/T 525 Organic Fertilizer

NY/T 1700 Determination of methane and carbon dioxide in biogas by gas chromatography

3 Terms and definitions

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

3.1 livestock and poultry farming enterprise With a certain scale, in a certain area, more production materials and labor are invested, and appropriate processes and technical measures are adopted to carry out livestock breeding. Poultry breeding, livestock and poultry farms with legal person status or independent accounting.

3.2 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 carbon dioxide (CO2), methane (CH4) and nitrous oxide (N2O). [Source: GB/T 32150-2015, 3.1, modified]