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

GB 43067-2023

**Technical requirements for safety of environmental monitoring
instruments for coalmines**

煤矿用仪器仪表安全技术要求

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Foreword

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. Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed and managed by the State Mine Safety Supervision Bureau. Safety technical requirements for instruments used in coal mines

1 Scope

GB 43067-2023 is the Chinese national standard on technical requirements for safety of environmental monitoring instruments for coalmines, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 8 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 13.100, CCS N21. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document stipulates the safety technical requirements, inspection rules and corresponding test methods for coal mine instruments. This document applies to the production, inspection and management of instruments and meters used in coal mines (hereinafter referred to as instruments and meters).

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this

document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 2099.1 Plugs and sockets for household and similar purposes Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 ratedvoltage The voltage of the instrument under specified working conditions.

3.2 Explosion-proof typetypeofprotection Specific measures taken to prevent electrical equipment from causing ignition of the surrounding explosive atmosphere.

4 Equipment protected by intrinsically safe type "i"

GB/T 3836.9 Explosive atmospheres Part

9 Equipment protected by casting type "m"

GB/T 4208 Shell protection level (IP code)

GB/T 10111 Generation of random numbers and their application in product quality sampling inspection

GB/T 17626.3 Electromagnetic compatibility testing and measurement technology Radio frequency electromagnetic field radiation immunity test

GB/T 17626.4 Electromagnetic compatibility test and measurement technology Electrical fast transient pulse group immunity test

GB/T 17626.5 Electromagnetic compatibility testing and measurement technology surge (impact) immunity test