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

GB/T 43959-2024

Technical specification for flame detector system of boiler

锅炉火焰检测系统技术规范

(English Translation)

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Reference

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 equivalent to IEC PAS63312:2021 "Technical Specification for Boiler Flame Detection Systems", and the document type is publicly available from IEC the specifications are adjusted to become my country's national standards:

The following minimal editorial changes have been made to this document:

--- Added the notes in 4:1;

--- Added notes in 6:2:3:3:

1 Scope

This document specifies the general requirements, classification and technical requirements of radiation energy sensing (including infrared, ultraviolet, visible light, image) flame detectors:

Requirements, installation and commissioning requirements, inspection and maintenance requirements, test methods and requirements, etc:

This document applies to the selection, design, installation, commissioning, maintenance, Maintenance and acceptance:

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:

IEC 60034-30-1 Rotating electrical machines Part 30-1: Efficiency classification of AC electrical machines for mains supply (IE code) Note: GB/T 32891.1-2016 Efficiency classification of rotating electrical machines (IE code) Part 1: AC motors supplied by mains (IEC 60034-30-1:

2014, IDT)

Tests-TestA:Cold)

Note: GB/T 2423.1-2008 Environmental testing for electric and electronic products Part 2: Test methods Test A: Low temperature (IEC 60068-2-1:2007, IDT) Tests-Test B:Dry heat) Note: GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2: Test methods Test B: High temperature (IEC 60068-2-2:2007, IDT) Note: GB/T 2423.10-2019 Environmental testing Part 2: Test methods Test Fc: Vibration (sinusoidal) (IEC 60068-2-6:2007, IDT) Part 2-27: Tests-TestEaandguidance:Shock) Note: GB/T 2423.5-2019 Environmental testing Part 2: Test method Test Ea and guidance: Shock (IEC 60068-2-27:2008, IDT) IEC 60068-2-78 Environmental testing Part 2-78: Test Cab: Steady state damp heat test (Environmentaltes-Note: GB/T 2423.3-2016 Environmental testing Part 2: Test method Test Cab: Steady state damp heat test (IEC 60068-2-78:2012, IDT) ment-General requirements) Note: GB 3836.1-2021 Explosive atmospheres Part 1: General requirements for equipment (IEC 60079-0:2017, MOD)