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Boiler carbon emission testing and calculation method

锅炉碳排放测试与计算方法

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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.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Technical Committee for Standardization of Boilers and Pressure Vessels (SAC/TC262).

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Boiler Carbon Emissions Testing and Calculation Methods

1 Scope

This document specifies the boiler carbon emission test boundary, emission sources, test and test report requirements, and describes the measurement items, instruments and and methods of measurement and calculation.

This document applies to boilers burning fossil fuels, boilers mixed with or purely burning non-fossil fuels, and electrically heated boilers.

This document is not applicable to the carbon emission testing and calculation of waste incineration boilers and waste heat boilers.

2 Normative references

GB/T 2900.48

GB/T 10180

GB/T 10184

GB/T 16157

3 Terms and Definitions

The terms and definitions defined in GB/T 2900.48 and the following apply to this document.

3.1 boiler system boilersystem

It consists of boiler body, fan, pump, water treatment system, fuel preparation device, fuel supply device, ash removal device, flue gas purification device, monitoring The sum of devices, etc.

3.2

Carbon dioxide emissions generated by fuel combustion and its flue gas treatment processes (desulfurization, denitrification, etc.).

3.3

CO_2 emissions from electricity use.

3.4

The sum of direct and indirect carbon emissions.

3.5

The total amount of carbon emissions per unit of heat output.