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

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**Technical specifications for dedusting engineering of thermal
power plants
(English Translation)**

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Foreword

For the implementation of the "People's Republic of China Environmental Protection Law", "People's Republic of China Air Pollution Prevention Law," Regulation Fan thermal power plant construction and operation management of dust, improve air quality, the development of this standard.

This standard specifies thermal power plant dedusting engineering design, construction, inspection, operation and maintenance of technical requirements.

This standard is the guiding document.

This standard is the first release.

This standard is developed by the Ministry of Environmental Protection Science, Technology organization.

Drafting of this standard. Beijing Academy of Environmental Sciences, State Power Environmental Protection Research Institute, Tsinghua University, Zhejiang Feida Environmental Science and Technology Co., Ltd., Shandong Aobo Environmental Protection Technology Co., Ltd., Jiangsu environmental protection Shin Co., Fujian Longking Corp.

This standard MEP June 10, 2014 for approval.

This standard since September 1, 2014 implementation.

The standard explanation by the Ministry of Environmental Protection.

Technical Specifications for Thermal Power Plant Dust

1 Scope

This standard specifies thermal power plant smoke (powder) dust governance principles and practices, as well as dust engineering design, construction, inspection, Operation and maintenance and other technical requirements.

This standard applies to coal and coal gangue power plant removal projects, including boiler flue gas dust removal engineering and unorganized row Discharge process (coal transport, storage, crushing, preparation, ash removal and transport processes such as desulfurization agent) dust works. can as an environmental impact assessment, engineering design and construction, and acceptance of completed construction projects after the completion of operation and management skills Surgery basis. HFO, smoke (powder) dust control and dust removal project of biomass power plants can be implemented by reference.

2 Normative references

The standard content of the following documents cited in the articles. For undated references, the effective version applies to this standard.

GB 2158 workplace occupational hazard warning labels GB 2893 Safety colors GB 2894 Safety Signs and use guidelines GB 4053.1 fixed ladders and platforms - Safety requirements - Part 1. Steel ladders GB 4053.2 fixed ladders and platforms - Safety requirements - Part 2. Steel LADDER GB 4053.3 fixed ladders and platforms - Safety requirements - Part 3. Industrial guardrails and steel platform GB 4208 housing protection (IP Code) GB 7251 Low-voltage switchgear and control equipment GB 12348 boundary of industrial enterprises noise emission standards GB 13223 Thermal Power Plant Air

Pollutant Emission Standards GB 16297 Air Pollutant Emission Standards GB 50007 Code for design of building foundation GB 50009 building structural load specifications GB 50010 Design of Concrete Structures GB 50011 Seismic Design of Buildings GB 50014 outdoor drainage design specifications GB 50015 Water and Drainage Design Specification GB 50016 architectural design code for fire protection Design of steel structures GB 50017 GB 50018 cold-formed steel specifications GB 50019 Heating, ventilation and air conditioning design GB 50029 air station design specifications GB 50040 dynamic machine foundation design specification GB 50052 power supply and distribution system design specifications GB 50054 low voltage power distribution design specifications GB 50057 Lightning in design GB 50140 Building fire extinguishers configuration design specifications GB 50187 for General graphic design specification GB 50217 electrical engineering design of cables GB 50229 fire protection design of power plants and substations GB 50251 gas pipeline project design specifications GB 50660 and medium-sized power plant design specifications GB/T 3797 Electric Control Equipment GB/T 3859.1 Semiconductor convertors - General requirements and line commutated convertors - Part 1-1. Specification of basic requirements GB/T 3859.2 Semiconductor convertors - General requirements and line-commutated convertors Part 1-2. Application guide GB/T 5117 non-alloy and fine grain steel electrode GB/T 5118 heat-resistant steel welding rod GB/T 6719 baghouse technology requirements Transformer oil quality GB/T 7595 running GB/T 11352 Carbon steel castings for general engineering purposes GB/T 14048 Low-voltage switchgear and control equipment GB/T 16845 precipitators GB/T 50033 architectural lighting design standards GB J 87 Industrial Enterprise Noise Control Design Specification GB Z 1 Design of Industrial Enterprises hygiene standards GB Z 2.1 Workplace Hazardous Occupational Exposure Limits - Part 1. Chemical hazardous agents GB Z 2.2 Workplace Hazardous Occupational Exposure Limits - Part 2. physical factors DL/T 387 power plant flue gas baghouse Selection Guide DL/T 461 coal-fired power plant operation and maintenance of ESP Guide DL/T 514 ESP Overvoltage protection and insulation coordination DL/T 620 AC electrical installations DL/T 1121 coal-fired power plant boiler flue gas dust bag engineering and technical specifications DL/T 5035 power plant heating, ventilation and air conditioning design technical regulations DL/T 5044 Electric Power Design Engineering Technical specification DC system DL/T 5072 thermal power plant paint design Regulations DL/T 5121 power plant coal smoke wind pipeline design Technical specification DL/T 5137 Technical code for designing electrical measuring devices and energy metering HJ/T 284 for environmental protection product requirements baghouse with electromagnetic pulse valve HJ/T 320 environmental protection product ESP high voltage rectifier power supply HJ/T 321 environmental protection product ESP low voltage control supply HJ/T 324 for environmental protection product requirements baghouse with filter HJ/T 326 for environmental protection product requirements baghouse with a membrane filter media HJ/T 327 for environmental protection product requirements baghouse filter bag HJ/T 328 environmental protection product pulse jet bag filter class HJ/T 329 environmental protection product rotary cleaning bag filter HJ/T 330 environmental protection product

sub-room cleaning bag filter class HJ/T 397 stationary source emission monitoring and technical specifications JB 10191 safety requirements for pulse jet bag filter baghouse class with manifold box JB/T 5845 Standard Test Method for High Voltage Electrostatic Precipitator rectifier equipment JB/T 5906 ESP anode plate JB/T 5911 ESP weldment technical requirements JB/T 5913 ESP cathode lines JB/T 5916 baghouse with electromagnetic pulse valve JB/T 5917 Technical condition for baghouse filter bag framework JB/T 6407 ESP design, commissioning, operation, maintenance and safety specifications JB/T 7671 ESP simulation test methods for air distribution JB/T 8471 baghouse technical requirements for installation and acceptance JB/T 8532 pulse jet bag filter class JB/T 8536 ESP technology mechanical installation conditions JB/T 9535, preservative outdoor electrical products Environmental technical requirements JB/T 9688 ESP with thyristor controlled high voltage power supply JB/T 10341 cartridge filter JB/T 11267 top electromagnetic hammer rapping ESP JB/ZQ 3687 manual arc welding specifications SDZ 019 welding General technical requirements "Acceptance of completed construction projects management approach" (SEPA Order No. 13)

3 Terms and Definitions

Terminology and definitions The following terms and definitions GB/T 16845 apply to this defined standard.

3.1 Dust dust removal engineering works

Governance smoke (powder) dust pollution works by the flue dust collector, fan and system auxiliary device components.

3.2 Unloading, conveying system ash discharging and transportation system

The precipitator dust collected complete sets of equipment delivered to the designated location.

3.3 Standard state standard condition

Flue gas at a temperature of 273K, pressure of 101.325 kPa when the state, referred to as "standard state." As specified in this standard Concentration of air pollutants refer to dry flue gas values of the standard state.

3.4 Low low low low temperature ESP ESP

Low temperature economizer or MGGH ESP inlet flue gas temperature is reduced to below the dew point of acid, the minimum temperature should meet Wet desulphurization system for process temperatures required ESP.