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

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GB/T 16507.8-2013

**Water-tube Boilers—Part 8: Installation and
Operation**

水管锅炉

第 8 部分：安装与运行

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Foreword

GB/T 16507 "water-tube boilers" is divided into following eight parts:

- Part 1: General rules;
- Part 2: Materials;
- Part 3: Physical design;
- Part 4: Strength calculation of pressure parts;
- Part 5: Manufacturing;
- Part 6: Inspection, testing and acceptance;
- Part 7: Safety accessories and instruments;
- Part 8: Installation and operation.

This is Part 8 of GB/T 16507.

This Part is drafted in accordance with the rules given in GB/T 1.1-2009.

This Part is newly added.

This Part is proposed by and is under the jurisdiction of the National Standardization Technical Committee of Boiler Pressure Vessel (SAC/TC 262).

The responsible drafting organization is China Special Equipment Inspection Institute.

Units participating in the drafting of this Part include: Anhui Power Construction Second Engineering Company of China's State Energy Group CNPC, Shandong Special Equipment Inspection Institute, Taian Sun Heat Power Equipment Installation Engineering Co., Ltd, Taishan Group, Datang Sanmenxia Power Generation Co., Ltd and Shanghai Power Equipment Packaged Design and Research Institute.

The main drafters of this Part include: Chen Xinzhong, Cao Hongwei, Qian Gong, Dou Wenyu, Zhao Jun, Yu Jinghe, Tang Jie, Gong Xianping, Wei Yaodong and Chen Xiubin.

Water-tube Boilers

Part 8: Installation and operation

1 Scope

This Part of GB/T 16507 specifies requirements of installation, commissioning, quality acceptance and operation of pipelines in boiler body and within boiler scope.

This Part is applicable to the water-tube boilers defined in GB/T 16507.1.

2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 2900.48

GB/T 16507.1 Water-tube boilers—Part 1: General requirement

GB/T 16507.6 Water-tube boilers—Part 6: inspection, testing and acceptance

GB/T 16507.7 Water-tube Boilers—Part 7: Safety appurtenances and instruments

GB/T 22395 Specification for design of boiler steel structures

GB 50016 Code of Design on Building Fire Protection and Prevention

GB 50041 Code for design of boiler plant

GB 50045 Code for fire protection design of tall building

GB 50126 Code for construction of industrial equipment and pipeline insulation engineering

GB 50204 Code for acceptance of constructional quality of concrete structures

GB 50205 Code for acceptance of construction quality of steel structures

GB 50273 Code for construction and acceptance of boiler installation engineering

GB 50275 Code for construction and acceptance of computer, fan and pump installation engineering

JB/T 4730 Nondestructive Testing of Pressure Equipment

TSG G0001 Boiler safety technical supervision administration regulation

TSG G3001 Boiler Installation and Alteration Enterprises

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 2900.48 and GB/T 16507.1 and the following apply.

3.1

Commissioning

Commissioning includes adjustment and test. It is the generic term of adjustment, setting and a series of testing work conducted after the installation over boilers and related equipments and systems according to the provisions of design and equipment technical documents.

3.2

Commissioning of individual equipment and system

Referring to dynamic inspection and test over individual equipment or system.

3.3

Start up and commissioning

Referring to the start up and commissioning of union electric and thermal automation of a whole set of steam engine and boiler equipments which are jointly conducted by commissioning, production and construction units on the basis of finishing the commissioning of individual equipment and system.

4 Basic requirements

4.1 After obtaining the installation permits for special equipments according to the provisions of TSG G3001 *Supervision and Management Rules for Boiler Installation and Alteration Enterprises*, boiler installation units can conduct boiler installation work within the permitted scope.

4.2 Before starting the construction, boiler installation unit shall send a written working report on the installation work to be conducted to the local provincial safety supervision organs for special equipments.

4.3 Positions and buildings where the boiler is to be installed shall comply with relevant regulations of GB 50041, GB 50016 and GB 50045.

4.4 Boiler installation shall be conducted after the completion and acceptance of the civil



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