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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 13673-2010

Replacing GB/T 13673-1992

General requirements for aero-derivative gas turbines auxiliary equipment

航空派生型燃气轮机辅助设备通用技术要求

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Foreword

This revision to the national standard GB/T 14099.3 (equivalent to using the original ANSIB133.3-1981 "ProcurementStandardfor GasTurbine Auxiliary Equipment "of the latest ISO standards similar ISO 3977-3.2004" Gasturbines- Procurement-Part 3. Designrequirements ") as an important reference. This standard replaces GB/T 13673-1992 "lightweight gas turbine auxiliary equipment general technical conditions." This standard compared with GB/T 13673-1992, the main changes are as follows:

--- Of GB/T 13673-1992 "lightweight gas turbine auxiliary equipment common technical requirements" of the contents of the standardization Amendment press GB/T 15135 "gas turbine word" requirement standard name will be changed to "aviation derivative gas turbine auxiliary General technical requirements. "

--- Specification words and names, the full text of "combustion engine" to "gas turbine", "start" to "start", "light" to "Aviation variant" "Oil" is replaced by "oil", "steam turbine" to "Turbine."

--- Original criteria for the purchaser, complete business, supply-side, demand side, users and other terms are not unified, now, "the purchaser, both sets of providers" Subject to subsection Chapter 1 "Scope" reservations, the rest throughout all be replaced by "both parties", "purchaser" to "demand-side", "Complete business" reform The "supply side."

--- Chapter 2, the original standard GB J9 and other references, the latest version of the

standards adopted similar standards. It adds a reference to GB/T 15135 "Burning Gas turbine vocabulary "and GB 150" steel pressure vessel. "

--- Chapter 6, an increase of 6.4 "dual-fuel system."

--- Chapter 8, "

8.3 car means" of "it can also be used in the normal starting sequence terminated start" amended to read "it can also be used in normal Start the program moving rotor disk "from a standstill.

--- Chapter 12 adds "

12.6 cleaning mode."

--- Chapter 14, "

1 Scope

GB/T 13673-2010 is the Chinese national standard on general requirements for aero-derivative gas turbines auxiliary equipment, in the field of energy and heat transfer engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 10 November 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 March 2011. Classification: ICS 27.040, CCS K56. 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 standard specifies requirements for the design variants aviation gas turbine (hereinafter referred to as GT) as well as auxiliary systems in different working conditions By constituting components required by the system, it is the purchaser, turnkey provider based on technical consultations between the two sides. This standard applies to power generation, ship and mechanical drive gas turbines.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 150 steel pressure vessels

GB 4066.1 powder extinguishing agent Part 1. BC powder extinguishing agent (GB 4066.1-2004, ISO 7202. 1987, NEQ)

GB/T 10489 General requirements for light turbine

GB/T 10491 Aviation derivative gas turbine equipment and methods of measurement noise value

GB/T 11369 Flue gas turbine pollutant measuring light

GB/T 14099 turbines - Procurement

GB/T 15135 turbine vocabulary (GB/T 15135-2002, ISO 11086.1996, MOD)

GB 50009 building structural load specifications

GB 50016-2006 architectural design code for fire protection

GB 50058 Explosion and fire hazard electrical installation design specifications

GB 50084 sprinkler system design specifications

GB 50193 Carbon dioxide fire extinguishing systems HB6712 Lightweight turbine couplings General technical requirements

3 Terms and Definitions

GB/T 15135, the terms and definitions GB/T 10489 and GB/T 14099 apply to this standard established.

4 General

4.1 Due to the gas turbine using the occasion, operation mode, environmental conditions and so affect the composition of the auxiliary systems, the provisions of this standard to the lowest Seeking project also provides a number of options, according to project needs determined by the supply and demand sides.

4.2 turbine auxiliary systems, control systems and other necessary equipment, functional requirements should be rational distribution. Layout should consider the operation of the device For the convenience of maintenance, installation, operation and maintenance cost and appearance.

4.3 Unless otherwise specified, lubricants, antifreeze and other supplies provided by the demand side.

5 Lube oil system

5.1 General Lube oil system shall be capable of starting, running and stopping the process of the gas turbine, gas turbine or gas turbine and the driven machine shaft

14.3 Design" in (corresponding to GB/T 13673-1992 14.2) adds "

14.3.4 expansion joints."

--- Chapter 21 heading "water or steam injection system" to "water/steam system" in this chapter all "water injection system" to "Water system" all "steam injection system" to "steam injection system", all the "steam injection" to "steam injection." The standard proposed by China Machinery Industry Federation. This standard by the National Standardization Technical Committee turbine (SAC/TC259) centralized. This standard was drafted are. Jiangsu Air Power Control Co., Ltd. Suzhou high thermoelectric, Zhuzhou Southern gas turbine sets Manufacture and installation Co., Ltd., China United Engineering Corporation, Shanghai Electric gas turbine power plant gate, Nanjing Turbine & Electric Machinery (Group) Co., Ltd. The main drafters of this standard. Xueyin Chun, Hu Xinghui, Chen Wenfeng, in Zhiping, Fanbang TY, Deng Aiping. This standard replaces the standards previously issued as follows:

--- GB/T 13673-1992. Aviation derivative gas turbine General technical requirements for auxiliary equipment