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

GB/T 14099.5-2010

**Gas turbines -- Procurement -- Part 5: Applications for
petroleum and natural gas industries**

燃气轮机 采购 第5部分：在石油和天然气工业中的应用

(English Translation)

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Table of Contents

- Foreword
- Introduction
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Oil and gas industrial gas turbine requirements
 - 4.1 Reference conditions and rating
 - 4.2 Design Requirements

Foreword

GB/T 14099 "gas turbine procurement" consists of the following components.

- Part 1. General principles and definitions;
- Part 2. Standard reference conditions and ratings;
- Part 3. Design requirements;
- Part 4. Fuel and Environment;
- Part 5. Application of the oil and gas industry;
- Part 6. Combined Cycle;
- Part 7. Technical information;
- Part 8. inspection, testing, installation and commissioning;
- Part 9. Reliability, availability, maintainability and safety.

This section GB/T 14099 Part 5.

This part identical with ISO 3977-5:2001 "Gas turbines - Procurement - Part 5. Application of the oil and gas industry." (In English).

For ease of use, this section also ISO 3977-5:2001, made the following editorial changes.

- The "this part of ISO 3977" replaced by "this section";
- Re-write the foreword, instead of ISO 3977-5:2001 Foreword;
- International standards cited in Chapter 2 of this section with the corresponding direct reference to the national standard in China.

This part is proposed by China Machinery Industry Federation.

This section of the gas turbine of the National Standardization Technical Committee (SAC/TC259) centralized.

This section is drafted. Hangzhou Huadian Banshan Power Generation Corporation Limited, China United Engineering Corporation, Nanjing Gas Turbine Research Institute, Hangzhou Steam Turbine Machine Co., Ltd., Harbin Steam Turbine Plant Co., Ltd., Shenyang Liming Aero-Engine (Group) Co., Ltd.

Introduction

Using GB/T 14099 users in this section should be aware of. a case for the project may submit a higher or different requirements; for a

Example project, this section does not limit the sets to provide the purchaser or received selective equipment or engineering solutions. This applies innovative or Evolving technology. If sets provide different solutions, turnkey provider should state in this part of the differences, and tell us why.

Gas turbines - Procurement Part 5. Application of the oil and gas industry

1 Scope

This section GB/T 14099 regulations for the oil and gas industry, drilling, production, refining and pipeline transportation of fast-mounted fuel Gas turbine design, materials, construction, inspection, testing and preparation for transport requirements and recommendations.

This section applies to procurement direction sets procure gas turbine and gas turbine systems and auxiliary equipment, including a combined cycle system Conventional gas turbines.

This section does not involve legislation provides equipment installation required to comply with local or national.

2 Normative references

The following documents contain provisions which, through reference GB/T 14099 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 14099-2005 turbines - Procurement (ISO 3977:1991, IDT) GB/T 14099.3-2009

turbines - Procurement - Part 3. Design requirements (ISO 3977-3:2004, IDT) GB/T 14099.4-2010 turbines - Procurement - Part 4. Fuel and Environment (ISO 3977-4:2002, IDT) GB/T 14099.7-2006 turbines - Procurement - Part 7. Technical information (ISO 3977-7:2002, IDT) GB/T 14099.8-2009 turbines - Procurement - Part 8. inspection, testing, installation and commissioning (ISO 3977-8:2002, IDT) GB/T 14099.9-2006 turbines - Procurement - Part 9. Reliability, Availability, Maintainability and Safety (ISO 3977-9:1999, IDT) GB/T 15135-2002 turbine Vocabulary (ISO 11086:1996, MOD)

3 Terms and Definitions

GB/T 15135-2002, GB/T 14099-2005, GB/T 14099.3-2009, GB/T 14099.4-2010, GB/T 14099.8-Terms and definitions 2009 and GB/T 14099.9-2006 established in this section apply to GB/T 14099 of.

4.1 Reference conditions and rating

Standard reference conditions of the gas turbine shall GB/T 14099-2005 provisions.

And shall provide complete sets of operating mode GB/T 14099-2005 provisions of the relevant standard ratings. Suppliers should also sets GB/T 14099-2005 provisions providing device at a predetermined site conditions and operating modes site rating.

4.2.1 Basic requirements

14099.3-2009 laid down the basic minimum requirements for procurement of gas turbine and gas turbine systems in GB/T . GB/T 14099.3-2009 also provides technical assistance and information to procurement.

The purchaser shall in accordance with GB/T 14099.3-2009 provisions, provide on-site information and to determine the conditions on the equipment lists