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CERTIFICATION AND ACCREDITATION INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Energy management systems. Requirements for certification on oil and gas exploitation enterprises

能源管理体系 石油、天然气开采企业认证要求

(English Translation)

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4.1 General requirements

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed and managed by the National Certification and Accreditation Administration.

This standard was drafted. Beijing Samsung Jiuqian Certification Center, China National Petroleum Corporation Exploration and Production Branch, Beijing China Construction Association Certification Center Co., Ltd., China National Petroleum Corporation Qinghai Oilfield Branch, Sinopec Group Xinxing Petroleum Co., Ltd.

Responsible company.

Introduction

The products of oil and gas exploration enterprises (hereinafter referred to as oil and gas field enterprises) are oil and natural gas, which have resources, technology intensive, and production.

The characteristics of high industry correlation and large economic aggregate are important components of China's energy structure.

The purpose of this standard is to standardize and guide oil and gas field enterprises to establish a systematic, scientific, rational and operational energy management.

System to improve energy performance, promote energy conservation and emission reduction, and achieve energy goals.

According to GB/T 23331-2012 "Energy Management System Requirements", combined with the actual situation of energy use and management of oil and gas field enterprises

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Formulated. The basic framework of this standard is consistent with GB/T 23331-2012, and within the basic framework, the energy management of oil and gas fields enterprises is proposed.

The specific requirements of the system.

Oil and gas field enterprises can combine with quality, environment, occupational health and safety management systems when building an energy management system. This standard also can be used in conjunction with relevant standards.

Oil and gas field enterprises may seek third-party certification bodies to enter their energy management systems in accordance with GB/T 23331-2012 and the requirements of this standard.

For certification, you can also conduct self-evaluation and self-declaration with reference to this standard, and seek relevant parties to confirm their compliance.

In order to facilitate users to understand the basic characteristics of energy use and energy consumption of oil and gas field enterprises, Appendix A provides energy management for oil and gas fields.

Basic information, Appendix B gives a list of laws, regulations, standards and requirements related to energy management in oil and gas fields, Appendix C lists an application example of an oilfield enterprise implementing an energy management system.

Energy management system Oil and gas mining enterprise certification requirements

1 Scope

This standard specifies the certification requirements for energy management systems for oil and natural gas mining enterprises (hereinafter referred to as oil and gas field enterprises).

This standard applies to the energy management system certification of oil and gas field production enterprises including production well drilling, oil and gas production and production maintenance processes.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 17167-2006 General rules for the provision and management of energy metering units GB/T 20901 Petroleum and petrochemical industry energy measurement equipment

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provision and management requirements GB/T 23331-2012 Energy Management System Requirements GB/T 31453 Oilfield Production System Energy Conservation Monitoring Specification SY/T 6722 Statistical indicators and calculation methods for energy consumption of petroleum enterprises SY/T 6374 Mechanical Production System Economic Operation Specification

3 Terms and definitions

The following terms and definitions as defined in GB/T 23331-2012 apply to this document.

Oil and gas field enterprise main production system mainproductionsystemofoilandgasexploitationenterprises the facilities, equipment, systems, processes, etc. that oil and gas field companies have passed from oil and gas exploitation to finished product output (end station measurement) Process.

Note: may include oil production or gas production systems, injection (water injection or polymer injection or steam injection) systems, oil and gas gathering systems.

Auxiliary production system auxiliaryproductionsystems Auxiliary facilities, equipment, systems, and processes configured for the normal operation of the main production system.

Note: It can include heating, power supply, water supply, air compressor station, sewage treatment, machine repair, instrument repair, electric repair, etc.

Subsidiary production system A production command system specially configured for the production system and a department and unit serving the production area in the plant.

Note: It may include functional management departments, maintenance systems, and commuting service systems in the plant area.

Electricity (gas) production electricity consumption electricity consumptionconsumptionofoil (associatedgas) production the ratio of electricity used in oil field production to the equivalent production of oil and associated gas.

4.1 General requirements

4.1.1

The enterprise shall meet the requirements of 4.1 of GB/T 23331-2012.

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