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

RB/T 115-2014

**Energy management systems. Certification requirements for
petrochemical plants
(English Translation)**

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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 Jiuquan Certification Center, Beijing Sinochem Joint Certification Co., Ltd., China Petroleum and Chemical Industry Union Hui, China Petroleum & Chemical Corporation, China National Petroleum Corporation, China Petroleum & Chemical Corporation Maoming the company.

Introduction

Petrochemical is the abbreviation of petrochemical industry, which refers to the processing of petroleum products and petrochemical products by using oil and natural gas as raw materials.

Industry, it has the characteristics of resource and capital technology, high industrial relevance, and large economic aggregate. Petrochemical industry is an important national economy the pillar industries play an important role in promoting the upgrading of related industries and stimulating economic growth.

The purpose of this standard is to standardize and guide petrochemical enterprises to establish a systematic, scientific, reasonable and operational energy management system.

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

The basic framework of this standard is consistent with GB/T 23331-2012, combined with the energy use and energy consumption of the petrochemical industry.

Characteristics are formulated. Within the basic framework, the specific requirements for the energy management system of petrochemical enterprises are proposed, which is for

GB/T 23331-2012.

Refinement.

Petrochemical companies may seek third-party certification in accordance with the requirements of GB/T 23331-2012 and this standard, and may also conduct self-evaluation and Self-declaration and seek relevant parties to confirm their compliance. At the same time, this standard also carries out energy management for certification bodies in petrochemical enterprises.

Provide a unified and standardized basis for system certification.

When establishing an energy management system, petrochemical enterprises can combine with quality, environment, occupational health and safety management systems, etc.

Use relevant standards.

In order to facilitate the standard users to understand the basic characteristics of energy use and energy consumption in the petrochemical industry, Appendix A provides the petrochemical industry.

The basic situation of energy management in the industry, Appendix B gives a list of laws, regulations, standards and other requirements for energy management of petrochemical enterprises, Appendix C an example of the application of a petrochemical enterprise to implement an energy management system is listed.

Energy management system Petrochemical enterprise certification requirements

1 Scope

This standard specifies the certification requirements for the energy management system of petrochemical enterprises.

This standard applies to processing industrial enterprises that use petroleum and natural gas as raw materials to produce petroleum products and petrochemical products (hereinafter referred to as.

Petrochemical company). It is used for energy management system certification, and can also be used as a basis for relevant parties to evaluate the energy management system of petrochemical enterprises.

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 Energy-using unit energy metering equipment management and general rules
GB/T 20901 Petrochemical industry energy measurement equipment provision and
management requirements GB/T 23331-2012 Energy Management System Requirements
GB 30250-2013 Ethylene plant unit product energy consumption limit GB 30251-2013
Refining unit product energy consumption limit

3 Terms and definitions

The following terms and definitions as defined in GB/T 23331-2012, GB 30251-2013 and GB 30250-2013 apply to this file. For ease of use, the terms and definitions in GB 30251-2013 and GB 30250-2013 are repeated below.

Comprehensive energy consumption of refining

comprehensiveenergyconsumptionofrefinery During the statistical reporting period, the amount of various energy and energy-consuming working materials consumed in refinery production will be converted into standard oil according to the prescribed calculation method.

Sum.

Refining (unit) comprehensive energy consumption

comprehensiveenergyconsumptionofrefineryforunitcrudeandpurchased Materials During the same statistical reporting period, the ratio of the total energy consumption of refining to the sum of crude oil and purchased raw material oil processing.

Unit energy factor energy consumption

comprehensiveenergyconsumptionofrefineryforunitcrudeandpurchased Materialsbasedonenergyfactorforrefinery During the same statistical reporting period, the ratio of comprehensive energy consumption of refining (unit) to refining energy factor.

Ethylene plant energy consumption energyconsumptionforethyleneplant During the reporting period, the actual amount of various fuels, steam, electricity and energy-consuming working fluids actually consumed by the ethylene plant during the production process shall be in accordance with regulations.

The calculation method and unit are converted into the sum of the standard oils respectively.