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

RB/T 049-2020

**Petroleum and chemical industry. Quality management systems
for petrochemical enterprises. Requirements
(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 was proposed and managed by the National Certification and Accreditation Administration Committee:

Drafting organizations of this standard: Beijing Samsung Nine Thousand Certification Center, China Petroleum and Chemical Industry Federation, Beijing Sinochem United Certification Co., Ltd:

Company, China National Offshore Oil Refining & Chemical Co., Ltd., China Petroleum & Chemical Corporation Tianjin Branch, Sinopec Qingdao Refining & Chemical Co., Ltd:

Liability Company, Maoming Branch of China Petroleum & Chemical Corporation, Zhenhai Refining & Chemical Branch of China Petroleum & Chemical Corporation, China Jilin Petrochemical Branch of Petroleum and Natural Gas Co., Ltd., Sichuan Sales Branch of China National Petroleum Corporation, Shantou Boshi Petrochemical Co., Ltd:

Introduction

0.1 General

With the development of my country's economy, "a country with high quality" has become a national strategy for my country to transform from a large manufacturing country to a strong manufacturing country: People from simple Focusing on product quality transitioned to not only focusing on product quality, but also focusing on the overall quality of organizational processes and management:

Refining and chemical enterprises are organizations that produce petrochemical products with non-renewable energy such as oil and natural gas as raw materials:

The characteristics of integration, high degree of automation, strong equipment dependence, intensive industrial relevance, and large economic aggregate are the important pillars of the national economy:

Basic industries: Petrochemical products have an extremely significant impact on society and people's lives, and the quality assurance and upgrading of their products has become more and more important:

Economic development, social progress and environmental friendliness: At the same time, the management level and production process quality of refining and chemical enterprises have become an impact:

An important factor affecting its core competitiveness:

GB/T 19001-2016 provides that by optimizing process quality, ensuring product and service quality, meeting customer requirements, and improving management Performance, the methodology for achieving organizational strategic goals, is universal: In order to adapt to the process material production process and production of refining and chemical enterprises the particularity of quality management meets the rapid development of the industry and guides organizations to achieve the needs of quality management, product and service quality upgrades, it is necessary to establish an advanced quality management system with industry characteristics based on the general requirements of GB/T 19001-2016:

To enhance the quality competitiveness of the refining and chemical industry:

This standard aims to standardize and guide refining and chemical enterprises to establish a complete set of systems, scientific standards, clear responsibilities, clear processes, and effective operations:

To promote the organization's ability to continuously improve the quality of its products and services, enhance customer satisfaction, and achieve its strategic goals:

The following auxiliary verbs are used in this standard:

---"Should" means request;

---"Suitable" means suggestion;

---"May" means allow;

---"Enable" means possible or capable:

The contents of "Notes" are guidelines for understanding and explaining the relevant requirements:

0.2 Quality management principles this standard adopts the quality management principles set forth in GB/T 19000:

0.3 Process method

The use of process methods can effectively promote the high integration of quality management system requirements with business activities in refining and chemical companies: Through system consideration the management process and the sequence and interaction of the main production system, auxiliary production system, and auxiliary production system processes are guided by expected results:

Learn to determine each process reasonably and formulate corresponding management requirements to improve the efficiency of management system performance management:

The PDCA cycle can be applied to all processes and the entire quality management system of refining and chemical enterprises:

Risk-based thinking can be widely used in the development planning, product design and development or upgrading or structural adjustment, business the whole process of planning, implementation and improvement of processes and activities to achieve the expected results effectively and efficiently:

The 0:3 of GB/T 19001-2016 describes the process approach, PDCA cycle, and risk-based thinking:

Appendix A of this standard provides examples of process methods, PDCA cycles, and risk-based thinking applications:

0.4 Relationship with GB/T 19001-2016 this standard is formulated in accordance with GB/T 19001-2016, combined with the actual situation of quality management of refining and chemical enterprises: The basics of this standard the framework is consistent with GB/T 19001-2016:

Petroleum and chemical industry Quality management system requirements for refining and chemical enterprises

1 Scope

This standard specifies the requirements for the quality management system of refining and chemical enterprises, and is based on GB/T 19001-2016:

Specific requirements for the quality management system of chemical companies:

This standard is applicable to the establishment, implementation, maintenance and improvement of the quality of refining and chemical enterprises of various types, sizes and offering different products and services:

The quality management system can also be used as the basis for the relevant parties to evaluate the quality management system of the refinery and chemical enterprises:

Note: The term "refining and chemical enterprises" in this standard refers to enterprises that use