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

RB/T 048-2020

**Quality management system requirements for foundry
enterprises in the machinery industry
(English Translation)**

Issued on: August 26, 2020

Implemented on: December 1, 2020

Issued by: National Certification and Accreditation Administration

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References

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: China United Certification Center (Beijing) Co., Ltd., China Foundry Association, Ningxia Sharing Group Co., Ltd., Meide Group Co., Ltd., Shanxi Huaxiang Group Co., Ltd., Dongfeng Precision Casting Co., Ltd., Yadelin Machinery (Suzhou) Co., Ltd., CITIC Heavy Industry Machinery Co., Ltd., Xinxing Cast Pipe Co., Ltd., Yantai Shide Equipment Co., Ltd., etc:

Introduction

0.1 The reason and significance of this standard the structure of this standard is consistent with GB/T 19001-2016 "Quality Management System Requirements", combined with foundry enterprise quality management the characteristics and specific requirements for application in foundry enterprises are the refinement of GB/T 19001-2016 "Quality Management System Requirements":

The foundry industry in this standard is in accordance with GB/T 4754-2017 "Classification of National Economic Industries", which belongs to category C "manufacturing" 339 medium category "casting and other metal products manufacturing":

This standard retains all the requirements of the GB/T 19001-2016 standard, of which chapters 1 to 10 are for the quality management of foundry enterprises the specific requirements of the system:

This standard aims to standardize and guide foundry enterprises to establish a quality management system with industry characteristics, so as to promote enterprises to continuously improve their quality Manage performance and enhance customer satisfaction:

This standard proposes specific control requirements based on the characteristics of the foundry industry, and then promotes the implementation of certification in the entire foundry industry; this standard the application will promote the realization of all employees, the whole process, and all-round participation in quality management, truly realize the transformation and upgrading of enterprises in the foundry industry, and realize product and service improvement:

According to the current situation of my country's foundry industry and the needs of future development, this standard proposes that the quality management system of the foundry industry has its own industry Characteristic certification requirements, the introduction of advanced management concepts such as total quality management and excellent performance, promote the conversion and upgrading of enterprises and the improvement of casting quality:

0.2 The main content added to this standard the main contents added to this standard include:

--- Chapter 1 stipulates that this standard is applicable to foundry enterprises that produce various castings;

---In Chapter 3, the terms and definitions of "special process" and "critical process" are added;

---In Chapter 5 and Chapter 6, "Risk Analysis and Risk Control" clauses have been added, and the "positions, responsibilities and authorities of the enterprise" and "quality Goals and plans for their realization" put forward detailed requirements;

---In Chapter 7 "Infrastructure", "Monitoring and measuring resources" and "Capacity" and other provisions put forward detailed requirements;

---In Chapter 8 and Chapter 9, the requirements for casting production process control and daily monitoring requirements have been detailed and supplemented, and the "Parts", "Special and Key Processes", "Identification and Traceability", "Release of Products and Services", "Monitoring, Measurement, Analysis and Evaluation" and detailed requirements for "control of unqualified output";

--- In Chapter 8, it is proposed that both the casting design and the casting process design should be controlled in accordance with 8:3, and the "design and development strategy"

Provisions such as "planning" and "output of design and development" all put forward detailed requirements;

---Detailed requirements for "externally provided products" in Chapter 8;

---Added 3 informative appendices: basic situation and quality management characteristics of foundry enterprises (Appendix A), quality management system of foundry enterprises Implementation points (Appendix B), the key process of casting production, identification, confirmation and control of special processes (Appendix C):

Machinery Industry

Quality management system requirements for foundry enterprises

1 Scope

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

The specific requirements of the enterprise quality management system:

This standard applies to foundry enterprises that produce various castings:

Note: Castings refer to rough castings, machined castings, and parts or metal components with castings as the main body and various processing treatments, including the use of various castings Gold, castings produced by various casting processes:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article Pieces: For undated references, the latest version (including all amendments) applies to this document:

GB/T 5611 Casting Terminology GB/T 19000-2016 Quality Management System Foundation and Terminology (ISO 9000:2015, IDT) GB/T 19001-2016 Quality Management System Requirements (ISO 9001:2015, IDT)

3 Terms and definitions

The following terms and definitions defined in GB/T 19000-2016 and GB/T 5611 apply to this document:

Critical process

The process that determines the quality of the product:

Note: The key process generally includes the process of forming key and important characteristics; the process of processing difficulty, unstable quality, and easy to cause major economic losses: