

ICS 25.040.40

CCS N19



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

GB/T 44446-2024

**The production process quality control - Quality traceability
system**

生产过程质量控制 质量追溯系统

Issued on: August 23, 2024

Implemented on: August 23, 2024

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	1
5 General Principles	2
5.1 Quality traceability system architecture	2
5.2 Quality traceability implementation process	2
6 Basic functions	3
6.1 Data Collection	3
6.2 Data Query	4
6.3 Troubleshooting and Analysis	5
6.4 Statistical Analysis	5
7 Application Functions	5
7.1 Production Quality Traceability	5
7.2 Purchasing Quality Traceability	6
12 Reference	13

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Industrial Process Measurement, Control and Automation Standardization Technical Committee (SAC/TC124). This document was drafted by: China University of Metrology, Comprehensive Technical and Economic Research Institute of Mechanical Industry Instruments, Chongqing Pisen Technology Co., Ltd., Wuhan Dongyan Smart Design Institute Co., Ltd., Zhejiang Rongxin Intelligent Instrument Co., Ltd., Suxun Elevator Co., Ltd., Shanghai Jiaotong University Chongqing Mengxun Electronic Technology Co., Ltd., Hangzhou Special Equipment Testing Institute, Wuxi Vocational and Technical College, Shenyang Automatic Institute of Chemistry, China Electronics Industrial Internet Co., Ltd., Ningbo Institute of Metrology and Testing (Ningbo New Materials Testing

Center), Mianyang Weibo Electronics Co., Ltd., Taizhou Special Equipment Inspection and Testing Institute, Huzhou Special Equipment Testing Institute (Huzhou Elevator Emergency Aid Command Center), Supcon Technology Co., Ltd., CITIC Dicastal Co., Ltd., Hangzhou Energy Group Engineering Technology Co., Ltd., Zhejiang Jiangyoushi Intelligent Equipment Co., Ltd., Suzhou Fao Elevator Co., Ltd., Hangzhou Wolei Intelligent Technology Co., Ltd., Zhejiang Xinda Keenxiao Defense Co., Ltd. The main drafters of this document are. Zhou Juan, Wang Chengcheng, Wang Qiang, Chen Jiayan, Tan Xiangyu, Wu Qingwei, Ni Pengfei, You Heping, Liu Yi, Wang Kai, Liu Yanlei, Liu Zhigang, Liu Yang, Lou Zhaohui, Wang Peijun, Jin Zhongping, Du Shichang, Chen Benyao, Cen Zhibo, Zhou Haiting, Zhou Ruiqing, Ma Junfeng, Song Yun, Yu Wenguang, Liu Peng, Wang Chunxi, Qian Lili, Hu Dan, Wang Zhenglong, Huang Liang, Peng Zhenghong, Hu Weifeng, Irina, Ni Shijin, Guo Bin, Dong Lingjun, Ma Wenting. Production process quality control quality traceability system

1 Scope

GB/T 44446-2024 specifies the quality traceability system used in production process quality control. Traceability is only worth having if it answers the question asked in a recall: given a defect found in the field, which units share the cause, and given a batch of suspect material, which units received it. Answering either way round requires the links between lot, process, equipment, operator and product to be captured as the work happens rather than reconstructed afterwards. The standard sets the general principles, covering the architecture of the traceability system and the implementation process, then the basic functions - data collection, data query, fault investigation and analysis, and statistical analysis - and the application functions, covering traceability of production quality, purchasing quality, research and development quality, and the sales and service side, together with the requirements on the data and its security. It took effect on 23 August 2024.

This document specifies the architecture, implementation process, basic functions, and application functions of the product production process quality traceability system. Basic functions include. The application functions include. data collection, data query, investigation and analysis, statistical analysis, etc. The application functions include. production quality traceability, procurement quality traceability, Traceability, R&D quality traceability, etc. This document applies to the development and implementation of the quality traceability system for product production processes.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 41272 General interface for quality data of production process quality control

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 traceability unit Individual raw materials, components, products, or materials that require information about their history, application, or location to be recorded, identified, and traceable. products or raw materials, parts, or products from the same batch.

3.2 traceability code A code that uniquely identifies the traceability unit in the quality traceability system.

3.3 Based on traceability codes, file records, related hardware equipment and communication networks, quality information management can be achieved and the entire product life cycle can be obtained Integration of relevant data in the quality traceability process.

3.4 object tracing When quality problems are discovered in raw materials, parts or finished products, quickly track down the users of the defective products.

3.5 Cause tracing When quality problems are found in raw materials, parts or finished products, the cause of the quality problem is found step by step from the current node, and the cause is solved by the Use labels to trace the responsibility point of a certain link in the research and development, procurement or production process, providing a basis for handling and preventing quality problems.

4 Abbreviations

The following abbreviations apply to this document.