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

GB/T 44805.1-2024

**Production of digital electrical documents - Part 1: Interactive
fault diagnosis manual**

数字化电气文件编制 第1部分：交互式故障诊断手册

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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. This document is Part 1 of GB/T 44805 "Digital Electrical Documentation". GB/T 44805 has been published in the following parts.

1. Interactive troubleshooting manual;

2. Interactive maintenance manual. 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 is proposed and coordinated by the National Technical Committee for Standardization of Electrical Information Structure, Documentation and Graphic Symbols (SAC/TC27). This document was drafted by: China Machinery Productivity Promotion Center Co., Ltd., Beijing Radio Measurement and Testing Institute, China Electronics Technology Group The company's tenth research institute, Beijing Aifu Aite Technology Co., Ltd., Jiangsu Xugong Guozhong Laboratory Technology

Co., Ltd., CRRC Zhuzhou Electric Locomotive Research Institute Co., Ltd., China Changfeng Electromechanical Technology Research and Design Institute, Shenzhen Sihe Technology Co., Ltd., Donghua Engineering Technology Co., Ltd. Co., Ltd., Shanxi Mechanical and Electrical Design Institute Co., Ltd., Schneider Electric Information Technology (China) Co., Ltd., China Southern Power Grid Big Data Service Co., Ltd. Company, Panjin Guanglida Electric Co., Ltd., Jiangxi Xiujiang Electric Co., Ltd., Harbin Electric Power Equipment National Engineering Research Center Co., Ltd., Jiangxi Mingzheng Substation Equipment Co., Ltd. The main drafters of this document are. Gao Yongmei, Yang Lina, Wen Jia, Liu Yong, Zhao Zhenglong, Luo Tiejun, Zhang Dongting, Hong Pengda, Jia Liang, Zhao Lin, Liu Xuejun, Zhang Ya, Yan Dejin, Ding Xinxing, Peng Junhua, Yang Fei, Hong Baoxuan, Lin Bin, Yao Guangqing, Xiong Yi, Li Guanglei, and Xiong Haiqiao.

With the rapid development of digital technology, traditional technical manuals have gradually evolved from paper manuals and electronic manuals to digital manuals. The advantages of the manual are obvious in improving compilation efficiency, reducing costs, enhancing data security, improving application convenience, and facilitating sharing and collaboration. In order to ensure the orderly progress of the digitalization of electrical documents and promote the standardization and normalization of the digital electrical document preparation process, The main task of carrying out electrical digital standardization activities is to establish rules for the entire process of preparing digital electrical documents. The purpose of this standard is to establish the principles and requirements applicable to the digital preparation of electrical documents. According to the different use occasions and use scenarios, as well as the differences in the content construction of the manual compilation information model, the manual is divided into fault diagnosis, maintenance GB/T 44805 is divided into interactive fault diagnosis manual and interactive maintenance manual. The parts are both independent and interrelated. They are connected and can call each other. GB/T 44805 "Digital Electrical Documentation Preparation" is intended to consist of the following parts.

1. Interactive troubleshooting manual. The purpose is to provide the principles to be followed for the compilation of interactive troubleshooting manuals and related requirements.
2. Interactive maintenance manual. The purpose is to provide the principles and relevant Require. Digital electrical documentation Part

1 Scope

GB/T 44805.1-2024 is Part 1 of the Chinese series on producing digital electrical documentation, and covers the interactive fault diagnosis manual. A paper troubleshooting chart assumes the reader can find the right branch and read the right schematic; an interactive manual holds the same knowledge as linked content that responds to the symptom entered and to the configuration of the particular machine, which changes how

the material has to be authored rather than merely how it is displayed. The standard sets the preparation principles, the content and interactive function requirements, and the preparation requirements - the preparation process, the planning of the manual, the preparation of the information, the writing of the manual and its updating - followed by the application of the manual and its version management, with an annex on the interaction between the manual and troubleshooting services. It takes effect on 1 May 2025.

This document specifies the content, interactive function requirements, and compilation requirements of the interactive fault diagnosis manual, establishes compilation principles, and provides the manual Application, version management, information security and data privacy, etc. This document applies to the planning, information preparation, production, publication and application.

2 Normative references

The contents of the following documents constitute the 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 6988.1 Preparation of electrical technical documents Part

3 Terms and Definitions

The terms and definitions defined in GB/T 19678.1-2018, GB/T 32236-2015 and the following apply to this document.

3.1 fault Loss of ability to perform as required due to an internal condition. Note

1.Product failures may arise from failures in the product itself or from deficiencies in product specifications, design, manufacturing, or maintenance at an early stage in its life cycle.

Invalid. NOTE

2 Use qualifiers such as product specification, design, manufacture, maintenance, or misuse to indicate the cause of the failure. NOTE 3 A fault type is associated with a corresponding failure type, e.g. a wear-out fault is associated with a wear-out failure. Note 4 to entry. The adjective "faulty" indicates that a product has one or more faults. [Source: GB/T 2900.99-2016, 192-04-01, modified]

3.2 fault detection An event that makes an existing fault visible. [Source: GB/T 2900.99-2016, 192-06-18]