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**Substation secondary system - Part 9: Construction
specifications**

变电站二次系统 第9部分：建设规范

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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 9 of GB/T 45906 "Substation Secondary Systems". GB/T 45906 has been published in the following parts.

- Part 1: General requirements;
- Part 2: Data and models;
- Part 3: Communication message specifications;
- Part 4: Network security protection;
- Part 5: Protection, control and related equipment;
- Part 6: Station monitoring system;
- Part 7: Centralized monitoring system;
- Part 8: Electrical operation error prevention;
- Part 9: Construction specifications;
- Part 10: Testing and inspection.

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.

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Introduction

In order to meet the transformation and development needs of the substation secondary system, the top-level design of the overall architecture, functions, data and equipment of the substation secondary system is realized.

Design, promote the optimization and upgrading of new power system equipment manufacturing industry, improve the overall performance and reliability level of substation secondary system, formulate this system List standards.

GB/T 45906 covers the substation secondary system from the aspects of general requirements, equipment system functional requirements and engineering implementation and testing.

The system is planned to consist of 10 parts.

- Part 1: General requirements. The purpose is to standardize the overall requirements and reliability, functional integration, information interaction, Network security and other technical requirements.
- Part 2: Data and Model. The purpose is to standardize the substation secondary system data and model framework, clarify data classification, collection Processing requirements, modeling methods, and model configuration processes.
- Part 3: Communication message specification. The purpose is to standardize the communication protocol set of the substation secondary system, clarify the data objects

and communication The implementation method of the service.

- Part 4: Network security protection. The purpose is to standardize the technical requirements for security protection of substation secondary systems.
- Part 5: Protection control and related equipment. The purpose is to standardize substation relay protection and safety automatic devices, automation equipment Technical requirements for power equipment, power metering and power quality equipment, collection and execution equipment, communication equipment and auxiliary monitoring equipment.
- Part 6: Station Monitoring System. The purpose is to standardize the technical requirements of the station monitoring system, including functions, performance, information exchange, etc.
- Part 7: Centralized monitoring system. The purpose is to standardize the system architecture, functions, performance, information exchange and Mutual technical requirements.
- Part 8: Electrical operation error prevention. The purpose is to standardize the overall requirements, architecture, functions and Energy, performance and application requirements.
- Part 9: Construction Specifications. The purpose is to standardize the overall requirements, design principles, process control and construction of substation secondary system engineering.

System and technical requirements.

- Part 10. Testing and inspection. The purpose is to standardize the general principles and testing of equipment and systems of substation secondary systems. Requirements, etc.
- Substation secondary system Part 9: Construction specifications

1 Scope

This document specifies the overall requirements, design principles, process control and technical requirements for substation secondary system construction.

This document applies to the construction, operation, maintenance and overhaul of substation secondary systems.

2 Normative references

GB/T 2887

GB/T 7261

GB 8897.4