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Substation secondary system - Part 2: Data and model

变电站二次系统 第2部分：数据与模型

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Table of Contents

Preface	III
Introduction	IV
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	2
5 General Requirements	2
6 Data Requirements	3
6.1 Data Classification	3
6.2 Data Collection and Processing	5
6.3 Data Interaction	7
6.4 Data Quality	8
7 Model Requirements	9
7.1 Model Framework	9
7.2 Equipment Model	10
7.3 Relational Model	11
7.4 Data Objects and Attributes	11
7.5 Naming and Indexing	11
7.6 Format and Syntax	12
8 Model Configuration	12
8.1 Model Configuration Process	12
8.2 System Configuration Tools	13
8.3 Device Configuration Tool	13
Appendix A (Normative) Equipment Type Correspondence Table	14
A.1 Primary equipment and component types correspondence table	14
A.2 Secondary equipment and component types correspondence table	15
A.3 Auxiliary equipment type correspondence table	16
Appendix B (Normative) Device and Relationship Model Elements	18
B.1 Primary Equipment Model	18
B.2 Secondary Equipment Model	18
B.3 Auxiliary equipment model	19
B.4 Topology Model	20

B.5 Network Model	21
B.6 Regional Model	22
B.7 Schematic diagram of building facility model	24
Appendix C (Informative) Implementation based on DL/T 860 (all parts)	26
C.1 Overview	26
C.2 Device Model	26
C.3 Relational Model	29
C.4 Model File	29
Appendix D (Informative) Regional Model Example	30
D.1 Substation area model element name	30
D.2 Cable connection model diagram	30
Reference	32

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 2 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 "Substation Secondary System" comprehensively covers general requirements, equipment system functional requirements, project implementation and testing, etc.

The substation secondary 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 requirements for the inspection of substation secondary system equipment and systems.
- Please wait. Substation secondary system Part 2: Data and Models

1 Scope

This document specifies the overall requirements, data classification, collection and processing, modeling and model configuration requirements for substation secondary system data and models.

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

2 Normative references

GB/T 33601