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Replacing GB/T 26862-2011

**Test specifications of synchrophasor measurement device for
power systems**

电力系统同步相量测量装置检测规范

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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 replaces GB/T 26862-2011 "Testing Specification for Synchronous Phase Measurement Devices in Power Systems" and is consistent with GB/T 26862-2011.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Added the terms and definitions of synchronized phasor, synchronized phasor measurement device, synchronized phasor measurement unit and phasor data concentrator (see Chapter 3);
- b) Added content on test conditions (see Chapter 4);
- c) Added basic function test items (see 5.2, 5.3, 5.4, 5.6, 5.7, 5.8);
- d) Added the detection content of digital input synchronous phasor measurement unit (see 5.9, 5.14);
- e) The inspection items of dynamic and static tests have been changed and the contents have been refined (see 5.15, 5.16, 3.3 of the 2011 edition);
- f) Added time synchronization detection content. time synchronization interface configuration check, time synchronization accuracy test, leap second processing function test, Time synchronization monitoring function check (see 5.17, 6.9.2);
- g) The contents of the electromagnetic compatibility test items have been changed (see 5.22, 3.15 of the 2011 edition);
- h) Added DL/T 860 (all parts) transmission protocol detection (see 5.24.4);
- i) Added phasor data concentrator detection content (see Chapter 6);
- j) Changed the "comparison method" in the test method to "calibrator method" (see Appendix A, Appendix A of the 2011 edition).

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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The previous versions of this document and the documents it replaces are as follows.

- First released in 2011;
- This is the first revision.

Introduction

This document aims to provide the detection environment, detection items, detection and evaluation methods for synchronized phasor measurement devices in power automation systems.

At present, the current domestic standard GB/T 26865.2 "Power System Real-time Dynamic Monitoring System Part 2: Data Transmission Protocol" and DL/T 280 "General Technical Requirements for Synchronous Phasor Measurement Devices in Power Systems" is closely related to this document.

The communication protocol of the measuring device is specified in DL/T 280, and the