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

GB/T 2900.19-2022

**Electrotechnical terminology - High-voltage test technique and
insulation co-ordination**

电工术语 高电压试验技术和绝缘配合

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Foreword

This document was issued on 12 October 2022 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 May 2023.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 01.040.29; 29.020, Chinese classification K04.

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 19 of GB/T 2900 "Electrotechnical Terminology". GB/T 2900 has released more than 100 parts.

This document replaces GB/T 2900.19-1994 "Electrotechnical Terminology, High Voltage Test Technique and Insulation Coordination", and is consistent with GB/T 2900.19-

Compared with.1994, except for structural adjustment and editorial changes, the main technical changes are as follows.

--- Increased DC equipment rated voltage (see 3.1.7), nominal DC voltage (see 3.1.9), maximum DC voltage (see 3.1.10), non-break

Negative discharge (see 3.1.12.6), corona (see 3.1.14), leakage current (see 3.1.15), dielectric dissipation factor (see 3.1.16), insulation

Insulation resistance (see 3.1.17), altitude correction factor (see 3.1.21.4), standard withstand voltage test (see 3.2.1), test voltage prediction

period characteristics (see 3.2.2.1), the actual characteristics of the test voltage (see

3.2.2.2), the withstand voltage of the test product (see 3.2.2.3), the true

Terms and definitions such as guaranteed destructive discharge voltage (see 3.2.2.4), coordination withstand voltage (see 3.3.21);

--- Modified the high-voltage technology (see 3.1.1, 2.1 of the.1994 edition), power transmission and transformation equipment (see 3.1.3, 2.3 of the.1994 edition), three-phase

The nominal voltage of the system (see 3.1.4, 2.4 of the.1994 edition), the maximum voltage of the three-phase system (see 3.1.5, the.1994 edition

2.5), equipment rated voltage (see 3.1.6, 2.6 of the.1994 edition), maximum equipment voltage (see 3.1.8, 2.7 of the.1994 edition), function

Voltage (see 3.1.11, 2.10 of the.1994 edition), destructive discharge (see 3.1, 12.1, 4.4 of the.1994 edition), flashover (see 3.1.12.2,

4.1 of the.1994 edition), spark discharge (see 3.1.12.3, 4.2 of the.1994 edition), breakdown (see 3.1.12.4,.1994 edition

4.3), withstand voltage (set and statistical) (see 3.3.20, 3.38 of the.1994 edition), measurement system (see 3.4.2,.1994 edition

5.2) and other terms and definitions;

--- Deleted the standard impulse current (see 4.36 of the.1994 edition), partial discharge (see 4.53 of the.1994 edition), and series power frequency test

Transformers (see 5.1.2 of the.1994 edition), power frequency resonance test transformers (see 5.1.3 of the.1994 edition), digital camera systems

(see 5.2.8 of the.1994 edition), (screen) memory oscilloscope (see 5.3.5 of the.1994 edition) and other terms and definitions.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

This document is proposed by China Electrical Equipment Industry Association.

This document is under the jurisdiction of the National High Voltage Test Technology and Insulation Coordination Standardization Technical Committee (SAC/TC163).

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

---First published in 1982 as GB/T 2900.19-1982, first revised in.1994;

--- This is the second revision.

Introduction

GB/T 2900 "Electrotechnical Terminology" is divided into several parts. The purpose of formulating electrotechnical terminology standards is to recognize

Provides precise, concise and correct definitions of the concepts and names the terms that express the concepts. The formulation of electrotechnical terminology standards is "standard-oriented

Standardized", which aims to help standard writers formulate standards, and help standard users understand and implement standards, and for normative (and

Translators of texts of a more general technical nature are also helpful. The purpose of developing electrotechnical terms is not to cover all kinds of electrical technical standards

All terms used, but to develop general terms of electrical technology.

This document is Part 19 of GB/T 2900. This document sets standards, technical documents, professional manuals, teaching materials and books, etc.

It is formulated based on the electrical terminology of high-voltage test technology and insulation coordination in the data, which can be used for scientific research, design,