

ICS 29.020
CCS K 04

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**ENERGY INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

NB/T 10943-2022

**Testing rules of active voltage sag curing device up to 10 kV
(English Translation)**

Issued on: May 13, 2022

Implemented on: November 13, 2022

Issued by: National Energy Administration

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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" is drafted.

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

1 Scope

This document specifies the detection conditions, detection devices and detection methods of active voltage sag control equipment (hereinafter referred to as "control equipment").

This document is applicable to AC equipment with a voltage level of 10kV and below, based on power electronic conversion technology to achieve voltage sag control.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 311.1 Insulation coordination - Part 1: Definitions, principles and planning GB/T 1094.5 Power Transformers Part 5: Capability to Withstand Short Circuit GB/T 2423.1 Environmental testing for electrical and electronic products - Part 2: Test methods Test A. Low temperature GB/T 2423.2 Environmental testing for electric and electronic products - Part 2: Test methods Test B. High temperature GB/T 2423.3 Environmental testing - Part 2:

Test methods Test Cab. Constant damp heat test GB/T 2423.4 Environmental testing for electric and electronic products - Part 2: Test method Test Db. Alternating damp heat (12h 12h cycle) GB/T 4208 enclosure protection level (IP code) GB 4793.1 Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements GB 4824 Limits and measurement methods of radio frequency disturbance characteristics of industrial, scientific and medical equipment GB/T 7251.1 Low-voltage switchgear and controlgear assemblies - Part 1: General GB/T 11022 Common technical requirements for high-voltage AC switchgear and control equipment standards GB/T 11287 Electrical relays Part 21: Vibration, shock, bump and earthquake tests for measuring relays and protective equipment Part 1: Vibration test (sine) GB/T 12325 power quality power supply voltage deviation GB/T 12326 Power quality voltage fluctuation and flicker GB/T 14537 Measuring relays and protective devices shock and bump test GB/T 14549 Power Quality Harmonics of Public Grid GB/T 15543 Power Quality Three-phase Voltage Unbalance GB/T 15945 Power Quality Power System Frequency Deviation GB/T 16927.1 High Voltage Test Techniques Part 1: General Definitions and Test Requirements GB/T 17626.2 Electromagnetic Compatibility Test and Measurement Technology Electrostatic Discharge Immunity Test GB/T 17626.3 Electromagnetic Compatibility Test and Measurement Technology Radio Frequency Electromagnetic Field Radiation Immunity Test GB/T 17626.4 Electromagnetic Compatibility Test and Measurement Technology Electrical Fast Transient Burst Immunity Test GB/T 17626.5 Electromagnetic Compatibility Test and Measurement Technology Surge (Shock) Immunity Test GB/T 17626.6 Electromagnetic compatibility test and measurement technology Conducted disturbance immunity induced by radio frequency field GB/T 17626.11 Electromagnetic Compatibility Test and Measurement Technology Voltage Dip, Short Interruption and Voltage Change Immunity Test GB/T 17626.12 Electromagnetic Compatibility Test and Measurement Technology Ring Wave Immunity Test