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

GB/T 26874-2011

**Characteristics of ceramic insulator units of the long rod type
for high-voltage overhead lines**

高压架空线路用长棒形瓷绝缘子元件特性

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses redrafted law revision adopted IEC 60433:1998 "nominal voltage above 1000V overhead line insulators AC systems with a long rod insulators porcelain insulator element characteristics "(in English).

This standard and IEC 60433:1998 compared to exactly the same structure and the chapter number on the strip.

This standard and IEC 60433:1998 technical differences exist compared to the terms of these differences has been involved through its outer margin bits Opposed to a single vertical line (|) have been identified in Appendix A shows a list of corresponding technical differences and their causes.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the National Standardization Technical Committee Insulators (SAC/TC80) centralized.

This standard was drafted. Xi'an High Voltage Apparatus Research Institute Co., Ltd., Wuxi Huaneng Selam Insulators Ltd., Suzhou porcelain Co., Ltd., the National Insulator arrester Quality Supervision and Inspection Center, China Power Engineering Consulting Group, East China Electric Power Design Institute, State Grid the company, East China Grid.

1 Scope

This standard specifies the electrical and mechanical properties of long rod porcelain insulator element and the main dimensions. This standard applies to high voltage AC and DC Insulators for overhead transmission lines with a long rod porcelain insulator element, but also for the converter station or substation with similar structures.

This standard applies to the long rod porcelain insulator element, the metal attachment groove ends can be connected, it can be a ball and socket connection.

Note: This standard principles can be used for similar insulator units outside the scope of this standard, such as traction line insulators.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 311.1 insulation with high-voltage power transmission equipment (GB 311.1-1997, neq IEC 60071-1:1993) GB/T 1001.1-2003 nominal voltage above 1000V Insulators for overhead lines - Part 1. Ceramic or glass AC system Glass insulator element definitions, test methods and acceptance criteria (IEC 60383-1:1993, MOD)

3 Terms and Definitions

The following terms and definitions apply to this document.

Long rod insulator element long rod insulator unit Suspension or strain insulator element made of a solid insulating member with an umbrella and a substantially cylindrical configuration, the end portion having an outer plastic with metal annex.

Because of the distance through the breakdown of solid insulating material is at least half the dry arc distance, according to GB/T 1001.1-2003 definition of such A structure belonging insulators.

4 Features

Predetermined characteristic long rod insulator element is as follows.

- Standard lightning impulse withstand voltage (see GB 311.1);
- Power frequency wet withstand voltage (see GB 311.1);
- Mechanical damage predetermined load;
- Nominal structural height L;

--- Insulating member maximum nominal diameter D;

--- Minimum nominal creepage distance;

--- Connection mark.

The corresponding value specified in Table 1. Wherein the minimum nominal creepage distances in accordance with uniform creepage distance 27.8mm/kV, 34.7mm/kV, 43.3mm/kV and 53.7mm/kV OK. Device operating voltage and a specified standard lightning impulse withstand voltage (see GB 311.1) on