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

GB/T 26218.3-2011

**Selection and dimensioning of high-voltage insulators intended
for use in polluted conditions -- Part 3: Composite insulators for
a.c. systems**

污秽条件下使用的高压绝缘子的选择和尺寸确定 第3部分：交流系统用复合绝缘
子

(English Translation)

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Foreword

GB/T 26218 "under filthy conditions Insulators selection and sizing" is divided into five sections.

- Part 1. Definitions, information and general principles;
- Part 2. AC system with porcelain and glass insulators;
- Part 3. composite insulators for ac systems;
- Part 4. DC system with porcelain and glass insulators;
- Part 5. DC system with composite insulators.

This section GB/T 26218 Part 3.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.2-2009 given.

This section uses redrafted Law Amendment uses IEC/T S60815-3.2008 under "filthy conditions and selection Insulators Sizing Part 3. Polymer insulators for ac systems "(in English).

Given our outdoor insulators under filthy conditions of use are basically silicone rubber composite insulators as the umbrella cover, and epoxy resin, EPDM and other materials as the number of insulators umbrella cover very few and the lack of operating experience, this part of IEC/T S60818-3.2008 name Name and scope have been modified only for dimethyl siloxane based silicone rubber umbrella sets of silicone rubber composite insulators, and deleted IEC/T S60815-3 in relation to non-silicone rubber insulators.

This part of IEC/T S60815-3.2008 technical differences exist compared to the terms of these differences has been involved through its outer margin Vertical single line blank position (|) have been marked, the list given in Appendix A corresponding technical differences and their causes.

This section and IEC/T S60815-3. compared to 2008, reg number changes as follows.

- 5.2.1 and 5.2.2 of the merger rewritten as 5.2;
- The suspension of paragraph 10 of Chapter rewrite 10.1, the original title of a strip extended;
- Number remaining clauses are identical.

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.

This part is proposed by the China Electrical Equipment Industrial Association.

The insulators in part by the National Standardization Technical Committee (SAC/TC80) centralized.

This section drafted by. China Electric Power Research Institute, Xi'an High Voltage Apparatus Research Institute Co., Ltd., State Grid Electric Power Research Institute, National Insulator arrester Quality Supervision and Inspection Center, Tsinghua University, Chongqing University, China Southern Power Grid Company EHV company, State Grid Corporation, China Power Engineering Consulting Group, East China Electric Power Design Institute, China Power Engineering Consulting Group, Central South Electric Power Design Institute, Dalian Insulator Group shares have Ltd., Guangzhou McLean Power Co., Ltd. Xiangfan State Grid composite insulator, Nantong Shenma Power Technology Co., Secretary, Suzhou Cichang Limited.

1 Scope and purpose

This section GB/T 26218 gives the specific characteristics of the insulator substantially in some filthy environment judging guidelines and principles.

This section applies to high voltage AC system under filthy conditions determined by the size and selection of composite insulators.

Of this section to CIGRE33.13TF01 [1] [2] as a base, we want in-depth study under filthy conditions insulator Performance Division Research staff can put the file as a useful supplement.

This section does not involve the impact of snow and ice contamination insulator. Although CIGRE [3] which has been studied, but little information available, experience the difference Do not larger.

The purpose of this section is.

--- Through on-site contamination degree (SPS) is determined with reference to a unified specific creepage distance (RUSCD);

--- Select the appropriate umbrella;

--- Unified reference creepage distance (RUSCD) for altitude changes, insulator shape, size, installation location correction.

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/T 2900.8-2009 Electrotechnical terminology insulator (IEC 60050-471:2007, IDT) GB/T 24622-2009 insulator surface wettability measurement guidelines (IEC/T S62073.2003,

IDT) GB/T 26218.1-2010 filthy conditions under high pressure insulator selection and sizing
- Part 1. Definitions, information and general Principles (IEC/T S60815-1.2008, MOD)

3.1 Terms and Definitions

GB/T 2900.8-2009 and GB/T 26218.1-2010 and as defined in the following terms and definitions apply to this document.

3.1.1

Reference Unified creepage distance (RUSCD) reference unified specific creepage distance;
RUSCD According to the part size, shape, location, etc. installation unified creepage
distance initial value before correction, usually in mm/kV representation.

3.2 Acronyms

The following abbreviations apply to this document.

Creepage factor CF creepage factor ESDD equivalent salt deposit density ESDD HTM
hydrophobicity transfer material hydrophobic material migration