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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 31239-2023

Replacing GB/T 31239-2014

Technical specification for fittings of 1000kV substation

1000kV变电站金具技术规范

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Standardization Administration of the PRC

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Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document replaces GB/T 31239-2014 "Technical Specifications for 1000kV Substation Fittings": Compared with GB/T 31239-2014, except In addition to structural adjustments and editorial changes, the main technical changes are as follows:

a) Added "Terms and Definitions" (see Chapter 3);

b) Added requirements for spacer material (see 5:3);

c) The yield strength ratio of steel parts with a nominal failure load of 160kN and above has been changed (see 4:2, 3:9 in the:2014 edition);

d) Changed the requirements for materials of tension clamps, connecting pipes and drainage plates (see 5:2, 4:3 of the:2014 edition);

e) The requirements for the diameter, thickness and bend deformation of the pressure equalizing ring and shielding ring have been changed (see 5:4, 4:4 of the:2014 edition);

f) The test methods and judgment criteria for substation hardware have been changed (see Chapter 6, Chapter 7 of the:2014 edition);

g) Delete the requirements for the construction of tension clamps (see 4:3 of the:2014 edition);

h) The chapter on eight changes and four golden tools has been deleted (see 4:7 in the:2014 version);

i) The requirements for the mechanical properties of spacer rod clamps are deleted (see

Table 1 of the:2014 edition):

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This document is proposed by the China Electricity Council:

This document is under the jurisdiction of the National UHV AC Transmission Standardization Technical Committee (SAC/TC569):

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

- First published as GB/T 31239-2014 in:2014;

- This is the first revision:

Technical Specifications for 1000kV Substation Fittings

1 Scope

This document stipulates the general requirements, technical requirements, markings, packaging and accompanying documents for 1000kV substation fittings, and describes the test Methods and Judgment Criteria:

This document is applicable to the frame crossovers and equipment rooms in all circuits with a system nominal voltage of 1000kV in a 1000kV substation:

Design, manufacturing, testing and acceptance of supporting fittings for connecting conductors and insulator strings:

2 Normative reference documents

GB/T 93

GB/T 95

GB/T 2314

GB/T 2315

GB/T 2317

GB/T 3190

GB/T 3880

GB/T 5075