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

GB/T 13540-2009

Replacing GB/T 13540-1992

**Seismic qualification for high voltage switchgear and
controlgear**

高压开关设备和控制设备的抗震要求

(English Translation)

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Foreword

This revised standard adopts IEC 62271-2:2003 "high-voltage switchgear and control equipment Part 2. Rated voltage 72.5kV and to Seismic requirements on ", while referring to the IEC 62271-207:2007" high-voltage switchgear and control equipment Part 207. Rated voltage Seismic requirements than 52kV gas insulated switchgear equipment "and IEC 62271-300:2006" high-voltage switchgear and control provided Test methods are cited GB/T 2423.43, GB/T 2423.48 and GB/T 2424.25 the three standards, this standard does not make Repeat;

--- This standard is mainly used original product "fortification intensity of 8 degrees to 9 degrees strut porcelain high-voltage switchgear" extended to "the amount of Constant voltage 3.6kV and above all high-voltage switchgear and control equipment "(such as. high-voltage AC circuit breakers, high voltage AC isolation and earthing switches, 72.5kV and above gas-insulated metal-enclosed switchgear (GIS), 3.6kV ~ 40.5kV AC Metal-enclosed switchgear, HV/LV prefabricated substations, etc.);

--- Applicable seismic ground level from the original horizontal acceleration 3m/s^2 (corresponding to the reference seismic intensity VIII ~ IX degree degrees) outward expansion Exhibition to 2m/s^2 , 3m/s^2 , 5m/s^2 (corresponding to the reference seismic intensity were. IX degree of = range;

--- Standards adopted in response spectrum damping ratios of 2%, 5%, 10%, 20% and greater, and the original standard of 3%, 5%, 7%, 10%, 15%.

Appendix A of this standard is a normative appendix, Appendix B, Appendix C are informative appendices.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the national high-voltage switch equipment Standardization Technical Committee (SAC/TC65) centralized.

1 Scope and purpose

GB 1984, GB 1985, GB/T 2424.25, GB 3906, GB 7674, GB/T 11022, GB 17467 terms and definitions established Apply to this standard.

4.1 General

Seismic performance test shall verify the switching and control equipment, the ability to withstand seismic stress.