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

GB/T 22383-2017

Replacing GB/T 22383-2008

**Rigid gas-insulated transmission lines for rated voltage of 72.5
kV and above
(English Translation)**

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Foreword

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

This standard replaces GB/T 22383-2008 "Rated voltage 72.5kV and above rigid gas insulated transmission line" and GB/T 22383-2008 compared to the main technical changes are as follows.

- Increased air tightness and anti-corrosion protection requirements;
- Added 3.111 isolation unit, 3.113GIL segment;
- Increased 4.3 preferred rated insulation level Table 1 and Table 2, and some of the insulation level has been adjusted;
- Remove the 5.1 switchgear and control equipment in the liquid requirements;
- Removed the 5.10.101 measurement mark, 5.10.103 public signs;

- Increased 5.20.102 non-buried corrosion protection equipment;
- Increased 5.101.2 in Table 4, according to the performance of the protection system to determine the performance of different arc duration;
- Added 5.104 GIL system of the sub-paragraph;
- 6.1 increased by the normal production of products every eight years should be carried out pilot projects;
- 6.2 insulation test voltage adjustment test;
- Adjust 6.102 diaphragm pressure test pressure rise rate;
- Added 7.1 Overview and pilot projects;
- 7.102.2 on-site shell welding and other pilot projects adjusted to 10.4.104, the 7.104 buried equipment corrosion test adjustment is 10.4.107;
- In 7.102 increased the duration of the test and test criteria;
- Chapter 8 Selection Guide increased the short-term overload capacity and forced cooling requirements;
- Added 11.2 manufacturer's precautionary measures and 11.3 user's precautionary measures;
- Increase the Chapter 12 product impact on the environment;
- Appendix B B.10.1 three-phase GIL, B.10.2 single-phase GIL, B.10.2.1 fixed connection, B.10.2.2 special connection, B.10.2.2.1 Single-point connection merged into an overview, leaving only B.10.2.2.2 cross-connect;
- Removed Appendix D, with reference to Appendix B GB/T 7674-2008.

This standard uses redrafted Law Amendment uses IEC 62271-204:2011 "high-voltage switchgear and control equipment Part 204. Amount Constant voltage 52kV rigid gas insulated transmission line. " the technical differences between this standard and IEC 62271-204:2011 and the reasons are as follows.

--- On normative references, this standard made a technical difference with the adjustment to adapt to China's technical conditions, adjust the situation Concentration reflected in the 1.2 "Normative references", the specific adjustments are as follows.

- Equivalent with the international standard GB/T 2421.1 instead of IEC 60068-1;
- Replaced IEC 60050-441:1984 with GB/T 2900.20-2016 modified to adopt international standards;
- Replaced IEC 60050-151 with GB/T 2900.83 modified to adopt international standards;