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

GB/T 8905-2012

Replacing GB/T 8905-1996

**The guide for management and measuring SF₆ gas in electrical
equipment
(English Translation)**

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Foreword

This standard was drafted according to GB/T 1.1-2009 given rules.

This standard replaces GB/T 8905-1996 "sulfur hexafluoride gas in electrical equipment management and inspection guidelines." this standard compared with GB/T 8905-1996, mainly in the following differences.

- Increasing the terms and definitions;
- Increased the impact on the environment of sulfur hexafluoride;
- Sulfur hexafluoride increased the impact on health and safety;
- Increasing the re-use of sulfur hexafluoride quality norms;
- Increased sulfur hexafluoride analysis methods;
- Increasing the recycling of sulfur hexafluoride gas processing, storage and transport;
- Added Appendix A, Appendix B, Appendix C and Appendix D four informative annex;
- Remove the differential gas.

This standard uses redrafted modification method using IEC 60480:2004 "at detecting and removing from the electrical equipment of sulfur hexafluoride gas Li Guidelines "(in English).

The Standard Appendix C lists a number of 60480 standard reg reg control list number IEC . Provision about the technical differences and into the body of a single vertical line identifies them involved with the provisions margin. These technical differences are given in Appendix D A list of its cause.

For IEC 60480 This standard also made the following editorial changes.

- IEC 60480 will be changed to GB/T 8905;
- Remove the IEC 60480 foreword and introduction;
- The maximum permissible level of impurity gas recovery requirements change over test of time.

This standard is proposed and managed by the China Electricity Council.

1 Scope

This standard specifies the method of sulfur hexafluoride gas in electrical equipment management and testing, gives sulfur hexafluoride electrical equipment maintenance, repair and Disintegration process gas recovered reuse technology, recommended the recovery process and the re-use of sulfur hexafluoride gas gas quality to be achieved standard.

This standard applies to equipment operation and maintenance of sulfur hexafluoride test, manage, and process gas.

For some specific provisions electrical equipment of sulfur hexafluoride gas management and testing, according to the relevant standards.

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 2900.5 Electrotechnical terminology insulating solids, liquids and gases (GB/T 2900.5-2002, eqv IEC 60050 (212).

1990)

GB/T 2900.13 Electrotechnical terminology credibility and quality of service (GB/T 2900.13-2008, IEC 60050 (191).1990, Amend.1.1999AndAmend.2.2002, IDT) GB/T 12022 Industrial sulfur hexafluoride (GB/T 12022-2006, IEC 376. 1971; IEC 376A. 1973; IEC 376B.

1974, MOD)

GB 50150 works of electrical installations electrical equipment handover test standard DL/T 596 electric preventive test code for electrical equipment IEC 60050 (441) International Electrotechnical dictionary Chapter 441 switchgear control devices and fuses (International electrotechnicalvocabulary-Part 441. Chapter441. Switchgear, controlgearandfuses) IEC 60050 (826) International Electrotechnical Dictionary 826 BUILDING electrical equipment

(Internationalelectrotechnical vocabulary-Part 826. Electricalinstalations) IEC 60376:2005
Electrical equipment specifications sulfur hexafluoride (Specificationoftechnicalgradesulfur
hexafluoride (SF6) foruseinelectrical equipment) IEC/T R62271-303 voltage switchgear and
control equipment Part 303. sulfur hexafluoride use and operation
(High-voltageswitchgearandcontrolgear-Part 303. Useandhandlingofsulphurhexafluoride
(SF6))

3 Terms and Definitions

GB/T 2900.5, GB/T 2900.13, IEC 60050 (441) and IEC 60050 (826) defined by the
following terms and definitions as well as appropriate Used in this document.

3.1 Generic term

3.1.1

Electrical equipment any generation, transformation, transmission, distribution and
utilization of electrical energy used, for example. generators, transformers, measuring
equipment, protective equipment, guide