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

GB 9159-2008

Replacing GB 9159-1988

Safety requirements for radio transmitting equipment

无线电发射设备安全要求

(English Translation)

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Foreword

All technical contents of this standard is mandatory.

This standard modify the International Electrotechnical Commission IEC 60215. 1987 "Safety requirements for radio transmitting equipment" and Amendment 2.1993. (English version)

This standard IEC 60215. 1987 compared technically equivalent, but made editorial changes as follows.

--- this standard, national standard corresponding to the reference cited national standards; No national standards, the direct reference to international standards.

The term --- "this section" to "this chapter." --- This standard IEC 60215 with the reg ID is not the same, with particular reference to Appendix G.

--- increasing the national standards foreword.

Other specific modifications have been indicated by a vertical bar in the text margin, the following aspects.

--- 4.1c) in "accordance with Annex F" in the international standard IEC 60215, IEC 60244-1 see here is the chapter on "Basic n Of the chord "of the present IEC 60244-1 standard as defined in Annex F of this writing.

--- end 5.2.5 international standard IEC 60215 also lists three elements, but the requirements to be determined, this standard be deleted.

--- 5.4b) the first sentence to "mark should be adopted in the equipment used text area" in the international standard IEC 60215.

--- 6.2.1b) the second paragraph "The color should be in Appendix E", the international standard IEC 60215 are written here as "the color should be consistent

IEC 60173 ", the IEC 60173 standard present techniques as Appendix E content is written.

--- 7.5.1 International Standard IEC 60215 in the second stage after a new paragraph, first sentence and the lower section is "the limit value and frequency range Tentative ", deleting the sentence of this standard, and even for the period of two.

--- 7.5.1 third paragraph, the international standard IEC 60215 will write this paragraph in Appendix E of E. 8.1.

--- end of the third paragraph 7.5.1, the international standard IEC 60215 in the following sentence there is a "small probes based on the electric and magnetic fields Standard measurement method to measure under consideration ", this standard be deleted.

Appendices Appendix A ~ G --- description in Appendix H of Appendix B ~, international standard IEC 60215 Appendix A as a reference standard directory, This standard will move by reference.

--- B. 2.4 for C. In the IEC 60215 2.4, but this entry in the international standard IEC 60215 is written as "pending", not given symbol.

The composition of the present standard symbols and colors of warning labels using ISO 3864 given.

This major change compared to the standard GB 9159-1988 as follows.

This alternative standard GB 9159-1988 "radio transmitting equipment safety requirements." --- This standard and GB 9159-1988 number of different clauses.

--- This standard GB 9159-1988 2.2 "Electrical safety components further instructions" written in 5.5.

--- This standard increased the normative references.

This standard increased --- "6.2.1d) protective ground terminal by mistake." It reads as follows. "Protecting ground terminal and the ground point protection can not be used for any other purpose." --- 6.2.2 "protective grounding" a) Replace with. "Only the metal shell

member assembly, is determined to be sufficient to ensure a continuous ground in normal operating conditions and under fault conditions, If it is possible to ensure permanent good conductivity and an appropriate low impedance ground safety, can be considered part it is electrically safe.

For the cover, unassembled panels, other protection panel or the like, usually a metal can be considered connected and tightened sufficiently to ensure continuity, on which You can not live with the device. If the component included, use a suitable impedance conductors. "

--- "D.7 work on live circuits" Replace Content. "Defines the charging circuit operating in voltage than 4.1b), or close operation of such circuits (state) will be limited to a minimum, as long as Meet the following conditions, you can do this kind of work.

--- This work must be performed by a skilled electrical engineer authorized by another trained and have the ability to not indulge Mistakenly cut off the power and outside, and trained by artificial respiration and heart massage to give first aid.

--- Risk of ionizing or non-ionizing radiation possibilities.

--- work must be no arcing or current flows through the human body to perform a dangerous way.

--- work must perform work safely using the appropriate equipment, test facilities and tools.

--- should take appropriate measures at the regional danger mark.

--- work performed only under forced reasons, for example, will not work, or no voltage to determine the fault location.

NOTE: In some countries may apply more stringent standards and/or rules.

--- This standard IEC 60215. 1987 Annex A as a reference.

--- this standard Appendix A, Appendix B, Appendix D, Appendix E, Appendix F is a normative, appendix C, Appendix G is an information appendix.

1 Scope

This standard specifies the design and structure of the radio transmitting equipment required, the appropriate test method is also predetermined.

This standard applies to those skilled in the operation of radio transmitting equipment, including the proper operation of the device defined by IEC 60244-1 publication Any auxiliary device necessary for all radio transmitting device and the accessory device in addition to entertain predetermined matching network comprises a combination unit and Network, but does not include the feeder and antenna system associated therewith.

This standard does not apply to double insulation or reinforced insulation without a protective insulation structure of a transmitting device safety ground. In such a device GB/T

12501-1990 "protection against electric shock classified electronic apparatus" referred II class device, such a device labeled with reference Appendix B B2.2 is a symbol mark.

This standard does not guarantee the normal operation when the device is non-secure, non-skilled work on the device.

Is not limited to this standard type test, can be used for acceptance testing, the test equipment member changes after installation, to And test equipment to ensure safety during the entire lifetime at appropriate intervals performed.

2 Normative references

GB 2894 Safety Signs (GB 2894-1996, idt ISO 3864. 1984)

GB/T 5465.2 electrical equipment graphical symbols (GB/T 5465.2-2008, IEC 60417DB.2007, IDT)

GB/T 14366 Acoustics occupational noise due to noise Evaluation of hearing damage (GB/T 14366-1993, eqv ISO 1999:1990)

IEC 60244-1 radio transmitters measurement Part 1. General characteristics of the broadcast transmitter

3.1

The necessary knowledge and practical experience in electrical and radio engineering, may occur when working on the understanding of radio transmission equipment All kinds of hazards, and to take appropriate measures to ensure the safety of people.

Given evaluation criteria qualified person skilled in Appendix C.

Note: The evaluation criteria defined above and Appendix C, knowledge specifies the minimum requirements for a skilled person, in some countries provides for more stringent Qualifications, training and experience, must hold an official certificate.

3.2

A member, or if the radio does not cause skin burns hazardous electrical shock, the member is electrically safe.

3.3

Air shortest distance along the surface of the insulator as measured between the two conductive members.