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

GB/Z 37627.3-2019

**Radio interference characteristics of overhead power lines and
high-voltage equipment -- Part 3: Code of practice for
minimizing the generation of radio noise**

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Foreword

GB /Z 37627 "Radio Interference Characteristics of Overhead Power Lines and High Voltage Equipment" currently includes the following parts.

--- Part 1. Description of the phenomenon;

--- Part 3. Implementation procedures to minimize radio noise.

This part is the third part of GB /Z 37627.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to CISPR/T R18-3.2010 "Radio interference for overhead power lines and high voltage equipment.

Sexual Part 3. Code of Practice for Minimizing Radio Noise.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 4365-2003 Electrotechnical terminology electromagnetic compatibility [IEC 60050 (161)..1990, IDT]

---GB/T 11604-2015 High-frequency electrical equipment radio interference test method (IEC /T RCISPR18-2.2010, MOD)

--- GB /Z 37627.1-2019 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 1

(CISPR/T R18-1..2010, MOD)

This part is proposed and managed by the National Radio Interference Standardization Technical Committee (SAC/TC79).

This section was drafted. China Electric Power Research Institute Co., Ltd., Shanghai

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Responsible company, State Grid Co., Ltd., China National Accreditation Center for Conformity Assessment.

1 Scope

This part of GB /Z 37627 applies to overhead power lines and high-voltage equipment radio noise that may interfere with radio reception.

Sound, excluding the field generated by the power line carrier signal.

The frequency range involved is 0.15MHz~300MHz.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 60050-161 International Electrotechnical Vocabulary (IEV) Chapter 161. Electromagnetic Compatibility [International ElectrotechnicalVocab-

Uryy(IEV)-Chapter161. Electromagneticcompatibility]

CISPR/T R18-1.2010 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 1. Profiles

Interferencecharacteristicsofoverheadpowerlinesandhigh-voltageequipment-Part 1.Description

Ofphenomena)

CISPR/T R18-2.2010 Radio disturbance characteristics of overhead power lines and high-voltage equipment - Part 2. Methods and limits

Determination program

(Radiointerferencecharacteristicsofoverheadpowerlinesandhigh-voltageequipment-

Part 2. Methodsofmeasurementandprocedurefordetermininglimits)

ISO /IEC Guide 99 International Metrology Glossary and General Concepts and Related Terms (VIM) [Internationalvocabu-

laryofmetrology-Basicandgeneralconceptsandassociatedterms(VIM)]

Note. Informational references are listed in the references.

3 Terms and definitions

The terms and definitions defined in IEC 60050-161 and ISO /IEC Guide 99 apply to this document.

4 Practical design of overhead power lines and related equipment to control radio broadcast and television reception interference

4.1 Overview

This chapter provides technical guidance for the design, construction and operation of overhead power lines and related equipment to enable the various types of radios described in this section.

The noise is kept within acceptable levels.

4.2 wire corona

In the circuit design, the geometric parameters should be considered to ensure that the radio noise generated by the wire corona does not exceed the specified acceptable water.

Flat, the most important parameters are the diameter of the wire and the number of splits per phase, other such as the distance between the phases, the height of the wire to the ground or the split wire