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

GB/T 10261-2008

Replacing GB/T 10261-1988

Stabilized d.c power supply for nuclear radiation detectors

核辐射探测器用直流稳压电源

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Foreword

This standard replaces GB/T 10261-1988 "nuclear instruments with high and low voltage DC power supply test methods." This standard 10261-1988 major changes compared to GB/T as follows:

- Increase Preface;
- Reference the new normative documents;
- Increase "Remote control rate" and other terms;
- Increasing the content of the technical requirements of product standards, inspection rules;
- Increase the informative Appendix A, the content of the specific test method is used in nuclear instrumentation DC power supply. Appendix A of this standard is the data appendix.

The standard proposed by China National Nuclear Corporation. This standard by the National Standardization Technical Committee on nuclear instrumentation. This standard was drafted. nuclear (Beijing) Nuclear Instrument Factory. Drafters of this standard. Wang Tong, Cui Liu. The standard in December 1988 the first release. Nuclear radiation detector DC power supply

1 Scope

GB/T 10261-2008 is the Chinese national standard on stabilized d.c power supply for nuclear radiation detectors, in the field of energy and heat transfer engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 2 July 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2009. Classification: ICS 27.120, CCS F80. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the use of nuclear radiation detectors DC high voltage power supply of the product classifications, requirements, test methods, inspection rules and signs, Packaging, transport and storage. This standard applies to the AC or DC power supply chamber core radiation detectors DC high voltage power supply (hereinafter referred to as the power supply). related Nuclear instruments with DC power supply specific test methods in Appendix A.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8993-1998 nuclear instruments - Environmental conditions and testing procedures

GB/T 10257-2001 nuclear instruments and nuclear radiation detectors Quality inspection rule

GB/T 19661.1 nuclear equipment and systems - Safety requirements - Part 1. General requirements
EJ/T 436-1989 nuclear instrument reliability test

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Provide energy to the power input AC voltage.

3.2 External power supply may affect the amount of any of its properties.

3.3 When other influences remain unchanged, since the impact of the steady-state values of one or several quantitative changes within a predetermined range, which leads to a stable output of Variety.

3.4 Since the AC voltage source within the specified range changes caused by stable output volume changes.

3.5 Since the load current is varied within a predetermined range, stable output caused by volume changes.

3.6 Since the AC voltage source and the load within their rated range change simultaneously, which leads to a stable output volume changes.

3.7 When the ambient temperature changes 1 °C, the maximum amount of change in output power stability.