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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 41485-2022

Nuclear instrumentation - Geophysical borehole instrumentation to determine rock density

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is identical to IEC 61874.1998 "Geophysical wellbore instrumentation for the determination of rock density by nuclear instrumentation (density measurement

well)".

The following minimal editorial changes have been made to this document.

---According to the usage habits of our industry, the standard name is changed to "Nuclear Instrument Geophysical Density Logging Instrument".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document applies to geophysical density logging tools, which mainly consist of the following parts.

--- Logging probe tubes for directional radioisotope (gamma) sources and detectors for measuring scattered gamma rays used only in measurements;

--- cable winches and cables equipped with depth controllers;

---Other related components (power supply, pulse converter/amplifier, rate meter, recorder, signal processing and data reading unit).

This document defines terms, specifies the composition, design and general technical requirements of equipment, special properties such as radiation, electrical, mechanical and environmental

Requirements, testing and calibration procedures, including electrical safety and radiation

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protection. In addition, the manufacturer's operation and maintenance manual (or certificate) has

Recommendations are made on the content.

The purpose of this document is to give the design requirements and performance characteristics of logging tools for in situ determination of rock formation density. can be obtained by appropriate response curve

line, divide the lithology of the rock formation and calculate the porosity.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

IEC 60050-3951) International Electrotechnical Vocabulary Chapter 395.Nuclear Instrumentation. Physical phenomena, basic concepts, instruments, systems, equipment and

Note. GB/T 2900.97-2016 Electrotechnical terminology nuclear instruments. physical phenomena, basic concepts, instruments, systems, equipment and detectors (IEC 60050-395.

2014, IDT)

Note. GB/T 6592-2010 Performance representation of electrical and electronic measuring equipment (IEC 60359.2001, IDT)

Note. GB/T 19661.2-2015 Safety Requirements for Nuclear Instruments and Systems Part 2.Structural Requirements and Classification of Radioactivity Meters (IEC 62598.2011,

MOD)

3 Terms and Definitions

Terms and definitions defined in IEC 60050-395 and IEC 60359 and the following terms and definitions apply to this document.

1) International Standards IEC 60050-394 and IEC 60050-393 here have been merged into IEC 60050-395.2014.

2) International Standard IEC 60405 here has been replaced by IEC 62598.2011.

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