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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE

PEOPLE'S REPUBLIC OF CHINA

JJF 1432-2013

Calibration Specification for Medical Diagnostics X-Ray Non-Invasive Exposure Time Meters

医用诊断X射线非介入曝光时间表校准规范

(English Translation)

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Introduction

This specification based JJF 1071-2010 "National Calibration Specifications writing rules", JJF 1001-2011 "Tong Metering term and definition of "establishment.

This specification reference JJG744-2004 "Medical Diagnostic X-ray radiation" on the exposure of non-intervention schedule Technical requirements, GB 9706.3-2000 "Medical electrical equipment - Part 2. X-ray diagnostic apparatus high incidence Voltage generator for safety requirements ", YY/T 0106-2008" diagnostic X-ray machine general technical conditions "in Loading time technical requirements, YY/T 0722-2009/(IEC 61676:2002, IDT) "Medical electrical equipment Preparation of diagnostic radiology for X-ray tube voltage non-access measuring dosimetric instruments "in the access type divider About the methods of measurement.

The specification for the first time to develop.

Non-invasive medical diagnostic X-ray exposure schedule Calibration Specification

1 Scope

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This instruction applies to non-invasive medical diagnostic X-ray exposure calibration schedule.

2. References

These rules mainly cited the following documents.

JJG744-2004 diagnostic X-ray radiation GB 9706.3-2000 Medical electrical equipment - Part 2. diagnostic X-ray high voltage generator occurs Requirements for the safety device GB/T 10149-1988 X-ray equipment for medical terminology and symbols YY/T 0106-2008 medical diagnostic X-ray machine general technical conditions YY/T 0722-2009/(IEC 61676:2002, IDT) Medical electrical equipment in diagnostic radiology for X-ray tube voltage non-access measuring dosimetric instruments for dated references, only the dated edition applies to this rule; undated reference documents Member, the latest edition (including any amendments) apply to this rule.

3 terminology and units of measurement

3.1 Exposure time Also known as irradiation time, referring to the duration of the irradiation method prescribed measured X-ray machine, the radiation dose rate is usually Exceeds a predetermined level of the time.

NOTE: The exposure time is usually based on load time measurements obtained. Loading time is measured by the method specified anode input power Rate applied to the X-ray tube time. Usually refers to the first X-ray tube voltage rises to a peak of 75% until the final descent to the phase Stop time interval of equal value.

3.2 Non-intrusive measurement of non-invasivemeasurement Analysis of the emitted radiation X-ray tube voltage is measured by.

3.3 The maximum peak voltage the maximum value of the X-ray tube voltage within a specified time interval, the amount of volts (V).

3.4 the average peak voltage meanpeakvoltage Within a predetermined time interval the average of all X-ray tube voltage spikes, the amount of volts (V).

3.5 Radiation detection limit X-ray detector can accurately respond to minimum air kerma rate in units of cGy/min.

4 Overview

Non-intrusive medical X-ray exposure schedule, is used to measure X-ray machines for medical exposure time measuring instruments,

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