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

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**Medical X-ray Radiation Sources for Mammographic Equipment
(English Translation)**

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Introduction

This regulation was prepared in accordance with the requirements of JJF1002-2010 "Rules for the preparation of national metrological verification regulations." JJF1001-

2011 Common Measurement Terms and Definitions and JJF1059.1-2012 Measurement Uncertainty Evaluation and Expression to support the establishment of this regulation and the preparation of the basis.

This regulation is issued for the first time.

Medical breast X-ray radiation source verification procedures

1 Scope

This procedure is applicable to the first verification, subsequent verification and in-use inspection of medical breast X-ray radiation sources. Its package Including medical digital breast X-ray sources and medical non-digital mammography sources. Does not apply to medical breast numbers Font layer synthetic photography X-ray radiation source.

2 references

This procedure refers to the following documents.

JJF1001 Universal Measurement Terms and Definitions JJF1035 Ionizing Radiation Measurement Terms and Definitions WS522-2017 Mammography Digital Radiography System Quality Control Inspection Specification IEC 61223-3-2:2007 Evaluation and routine testing of medical imaging departments - Part 3-2. Acceptance tests Mammography X-ray imaging performance (Evaluation and routine testing in medical imaging Departments Part 3-2.Acceptancetests-ImagingperformanceofmammographicX-ray Equipment Health Quality Assurance Guide (Europeanguidelinesforqualityassuranceinbreastcancerscreeningand Diagnosis) IAEA Human Health Reports No.4-2011 Implementation of International Standards for Diagnostic Radiation Dosimetry (TRS)

457). Evaluation of Measurement Results[Implementation of the International Code of Practice on Dosimetry in Diagnostic Radiology (TRS457). Review of Test Results] for dated references, only the dated version applies to this procedure; any undated references the latest version (including all amendments) is applicable to this procedure.

3 Terms and units of measure

3.1 Terms

The terms and definitions defined by JJF1001, JJF1035, and the following apply to this procedure.

3.1.1 Mammary gland average dose averagedlandlddose, AGD Subjects in mammography were subjected to uniform compression of the breast's glandular tissue (excluding skin and fat) the average absorbed dose of tissues).

3.2 Units of measurement Absorbed dose, the unit name is Ge, and the unit symbol is Gy.

4 Overview

Medical breast X-ray source is mainly composed of X-ray source assembly, high voltage generator, imaging device, image processing