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NATIONAL METROLOGY VERIFICATION REGULATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJG 1078-2012

Verification Regulationof X-ray Radiation Sources for Medical Computed Radiography System and Digital Radiography System

医用数字摄影（CR、DR）系统 X射线辐射源

(English Translation)

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Introduction

This procedure is a combination of the current situation of medical digital photography equipment performance and image quality evaluation, and refer to the relevant International recommendations and national standards on the basis of established.

Medical digital photography (CR, DR) system X-ray radiation source verification procedures

1 Scope

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The order applies to medical X-ray imaging computer system (ComputedRadiographySystem, Acronym CR systems), digital X-ray imaging system (DigitalRadiographySystem, referred to as DR systems) X-ray Emitter initial verification, subsequent verification and the use of checks.

This procedure does not apply to breast, and dental digital photography system test X-ray radiation source.

2. References

This procedure references the following documents.

JJG 744-2004 diagnostic X-ray radiation JJF1035-2006 ionizing radiation measurement terms and definitions GB 9706.3-2000 Medical electrical equipment - Part 2. High-voltage generator means of diagnostic X-ray generator Requirements for safety GB/T 10149 X-ray equipment for medical terminology and symbols AAPMREPORTNO.93- ray image forming system acceptance testing and quality control (Acceptance TestingandQualityControlofPhotostimulableStoragePhosphorImagingSystems) WS76-2011 conventional X-ray diagnostic equipment for medical image quality control testing specification GB Z187-2007 computer X-ray photography (CR) quality control testing specification YY/T 0741-2009 digital medical X-ray imaging system dedicated technical conditions for dated references, only the dated edition applies to this procedure; undated reference documents Member, the latest edition (including any amendments) applies to this procedure.

3 terminology and units of measurement JJF1035-2006 and GB/T 10149 and defined by the following terms and definitions apply to this procedure.

3.1 Terms

3.1.1 Computer X-ray imaging system computedradiographysystem Using imaging plates instead of intensifying screen film can be reused as a carrier through the X-ray exposure, and then the laser scanning Access to equipment image information. Acronym CR system.

3.1.2 The digital X-ray imaging system digitalradiographysystem Using digital X-ray image detector technology X-ray imaging devices. Acronym DR system.

3.1.3 imaging plate (IP) Using an X-ray storage luminescent material (such as fluorine, barium halide) is made of an X-ray detector plane.

3.1.4 Spatial resolution Under specified measurement conditions, visually discernible predetermined set of graphic line or minimum spatial frequency line pair group unit

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