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

GB/T 19943-2005

**Non-destructive test -- Radiographic examination of metallic
materials by X-and gamma-rays -- Basic rules
(English Translation)**

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Foreword

This Standard was formulated for the first time.

This Standard identically adopts ISO 5579.1998 "Non-destructive testing - Radiographic examination of metallic materials by X- and gamma-rays - Basic rules" (English version).

This Standard is an identical translation version to ISO 5579.1998.

For easy use, this Standard made the following editorial modifications.

- a) modified "this International Standard" as "this Standard";
- b) replaced "," that was used as decimal point in ISO 5579.1998 with decimal point ".";
- c) deleted the foreword of ISO 5579.1998;
- d) used the introduction specified in GB/T 1.1-2000.

This Standard was proposed by China Machinery Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee on Non-destructive testing of Standardization Administration of China (SAC/TC 56).

The drafting organization of this Standard. Shanghai Materials Research

Institute.

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Non-destructive testing - Radiographic examination of
metallic materials by X-and gamma-rays - Basic rules

1 Scope

This Standard specifies the basic rules for industrial X- and gamma radiography for flaw detection purposes, using film techniques, applicable to metallic products and materials.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 19348.1, Non-destructive testing - Industrial radiographic film - Part 1. Classification of film systems for industrial radiography (GB/T 19348.1-2003, ISO 11699-1.1998, IDT)

GB/T 19802, Non-destructive testing - Industrial radiographic illuminators - Minimum requirements (GB/T 19802-2005, ISO 5580.1985, IDT)

GB/T 19803, Non-destructive - Radiographic image quality indicators - Principles and identification (GB/T 19803-2005, ISO 1027.1983 Radiographic image quality indicators for non-destructive testing - Principles and identification, IDT)

GB/T 19938, Non-destructive testing - Radiography of welds and viewing conditions for films - Utilization of recommended patterns of image quality indicators (GB/T 19938-2005, ISO 2504.1973 Radiography of welds and

viewing conditions for films - Utilization of recommended patterns of image
quality indicators (I. Q. I), IDT)

3 Definitions

For the purposes of this document, the following terms and definitions apply.

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