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

GB/T 19802-2005

**Non-destructive testing -- Industrial radiographic illuminators --
Minimum requirements
(English Translation)**

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Foreword

This Standard is identical to ISO 5580.1985 "Non-destructive testing - Industrial radiographic illuminators - Minimum requirements" (English version).

This Standard is identical to ISO 5580.1985 by translation.

For ease of use, this Standard makes the following editorial changes.

- a) The word "this International Standard" is replaced by the word "this Standard";
- b) USE the decimal point "." instead of the comma as a decimal point ",";
- c) DELETE the foreword of the international standard;
- d) ADD the number of the table according to the provisions of 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

56 on Non-destructive Testing of Standardization Administration of China

(SAC/TC 56).

Drafting organization of this Standard. Shanghai Research Institute of Materials.

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Non-destructive testing - Industrial radiographic
illuminators - Minimum requirements

1 Scope

This Standard specifies the minimum requirements for industrial illuminators used for viewing radiographs.

The function of the illuminator is to allow the viewing of radiographs.

The illuminator shall guarantee the same safety of personnel as an electric apparatus with maximum voltage, insulation and earthing which is required by corresponding safety standards of electrotechnics in China.

2.1 Mechanical construction

An illuminator consists of the housing with one of the sides being the viewing screen illuminated from the inside. This screen can itself be the diffusing screen.

This housing may also contain a system for thermal protection of the radiographs; this system may or may not be ventilated.

For the viewing of wet radiographs, the illuminator shall be so designed as to prevent penetration of the liquid if the radiograph comes into contact with the screen.

2.2 Viewing screen

The screens shall be easy to clean and shall be made of a material which is resistant to scratching during cleaning processes recommended by the manufacturer and during film viewing.

Note: The screen may be a combination of elements. All of which should be resistant to heat in terms of deformation and discoloration.

The size of the screens shall allow the viewing of a radiograph without excessive glare reaching the eyes of the operator. Should the illuminator be used for viewing radiographs of different sizes, a system of covering masks shall be provided.

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