

NB

PROFESSIONAL STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国行业标准

NB/T 47013.7-2012 (JB/T 4730.7)

Nondestructive Testing of Pressure Equipment - Part 7: Visual Examination

承压设备无损检测 第7部分：目视检测

Implemented on: March 01, 2012

Issued by **the National Energy Administration**

Announcement of the National Energy Administration

[2012] No. 1

According to the requirements of "Standardized Management Methods for Energy Industry (Tentative)", the National Energy Administration hereby approves to issue 182 professional standards (see annex) such as "Nondestructive Testing of Pressure Equipment - Part 7: Visual Examination", including 3 professional standards on energy (NB), 81 professional standards on electric power (DL) and 98 professional standards on oil and gas (SY).

Annex: Catalogue of Professional Standards

January 4, 2012

Annex:

Catalogue of Professional Standards

No.	Standard No.	Standard name	Replaced standard name	Reference standard No.	Approval date	Implementation date
1	NB/T 47013.7-012 (JB/T 4730.7)	Nondestructive Testing of Pressure Equipment - Part 7: Visual Examination		Modified in relation to: 1. Chapter IX, Volume V of "Boiler and Pressure Vessel Specifications" (ASME, 2001) 2. "Non-destructive Testing-Visual Testing - General Principles" (EN 13018:2001)	2012-01-04	2012-03-01
2	NB/T 47013.8-2012 (JB/T 4730.8)	Nondestructive Testing of Pressure Equipment - Part 8: Leakage Examination		Modified in relation to: 1. Chapter X, Volume V of "Boiler and Pressure Vessel Specifications" (ASME, 2001); 2. ASTM E1066-95R06	2012-01-04	2012-03-01
3	N/T 47013.9-2012 (JB/T4730.9)	Nondestructive Testing of Pressure Equipment - Part 9: Acoustic Emission Examination			2012-01-04	2012-03-01
4~182	Ignored					

Foreword

This Part is Part 7 (Visual Examination) of "Nondestructive Testing of Pressure Equipment (NB/T 47013).

This Part is formulated mainly by reference to Chapter IX, Volume V of "Boiler and Pressure Vessel Specifications" (ASME, 2001) and "Non-Destructive Testing - Visual Testing - General Principles" (EN 13018: 2001) in combination with the actual conditions of China.

This Part was proposed by and is under the jurisdiction of the National Technical Committee on Boilers and Pressure Vessels of Standardization Administration of China (SAC/TC 262).

Drafting organizations of this Part: China Special Equipment Inspection and Research Institute, Nanjing Boiler and Pressure Vessel Inspection Institute, Hefei General Machinery Research Institute, Shanghai Research Institute of Materials, Sinopec Engineering Incorporation, Aerosun Corporation, Sinopec Nanjing Chemical Industrial Co., Ltd. Chemical Machinery Works, Nanjing Baose Co., Ltd., Hebei Supervision and Inspection Institute of Boiler and Pressure Vessel and Inspection and Research Institute of Boiler and Pressure Vessel of Jiangxi Province

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National Technical Committee on Boilers and Pressure Vessels of Standardization Administration of China (SAC/TC 262) is in the charge of the explanation of this Part.

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Nondestructive Testing of Pressure Equipment - Part 7: Visual Examination

承压设备无损检测 第 7 部分：目视检测

1 Scope

This Part of NB/T 47013 specifies the visual examination methods of pressure equipment.

This Part is applicable to the visual examination of pressure equipment in manufacturing and in use. The visual examination of the support Parts and structural members related to pressure equipment may also refer to this Part.

This Part is not applicable to visual observation activity adopted in other nondestructive testing methods

2 Normative References

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies. For undated references, the latest edition (including all the amendments) of the normative document applies.

GB 11533 Standard Logarithmic Visual Acuity Charts

GB/T 20737 Non-destructive Testing - General Terms and Definitions

GB/T 20968 Non-destructive Testing - Aids to Visual Inspection - Selection of Low-power Magnifiers

JB/T 4730.1 Nondestructive Testing of Pressure Equipment - Part 1: General Requirements

3 Terms and Definitions

For the purpose of this Part, the following terms and definitions as well as those given in GB/T 20737 apply.

3.1

Visual examination

It is a kind of nondestructive testing method for the observation, analysis and evaluation of an examined piece, and only refers to an examination of the examined piece by eyes or by a visual aid.

3.2

Direct visual examination



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