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**Digital radiographic examination for the
weld seam of welded steel tubes**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Iron and Steel Federation (JISF) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS G 0804:2015**), which has been technically revised.

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Digital radiographic examination for the weld seam of welded steel tubes

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 10893-7 : 2019**, Edition 2, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies requirements for digital radiographic X-ray testing of the longitudinal or helical weld seams of automatic fusion arc-welded steel tubes (hereafter referred to as steel tubes) for the detection of imperfections.

NOTE 1 As an alternative, see JIS G 0803 established based on ISO 10893-6 for film radiographic testing.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 10893-7 : 2019 *Non-destructive testing of steel tubes — Part 7 : Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 0203 *Glossary of terms used in iron and steel (Products and quality)*

JIS G 0431 *Steel products — Employer's qualification system for non-destructive testing (NDT) personnel*

JIS Z 2300 *Terms and definitions of nondestructive testing*

JIS Z 2305 *Non-destructive testing — Qualification and certification of NDT personnel*

JIS Z 2306 *Radiographic image quality indicators for non-destructive testing*

JIS Z 2307 *Determination of the image unsharpness value using duplex wire-type*