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**Automated flux leakage examination of
steel pipes and tubes**

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In the event of any doubts arising as to the contents,
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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by The Japan Iron and Steel Federation (JISF), an accredited standards development organization. This edition replaces the previous edition (**JIS G 0586**: 2012), which has been technically revised.

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Automated flux leakage examination of steel pipes and tubes

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 10893-1** : 2011, Edition 1 and Amendment 1 : 2020, and **ISO 10893-3** : 2011, Edition 1, Amendment 1 : 2019 and Amendment 2 : 2020 with some modifications of the technical contents. The amendments to the said International Standards have been incorporated into this Standard.

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

1 Scope

This Standard specifies the requirements for automated magnetic flux leakage examination of seamless and welded steel pipes and tubes with the exception of submerged arc-welded steel tubes (hereafter referred to as tubes).

This Standard is applicable to the inspection of tubes with an outside diameter equal to or greater than 10 mm. Unless otherwise specified by the product standard or agreed between the purchaser and the manufacturer, this Standard is applicable to the detection of predominantly longitudinal imperfections.

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

ISO 10893-1 : 2011 *Non-destructive testing of steel tubes — Part 1 : Automated electromagnetic testing of seamless and welded (except submerged arc-welded) steel tubes for the verification of hydraulic leak-tightness* + Amendment 1 : 2020

ISO 10893-3 : 2011 *Non-destructive testing of steel tubes — Part 3 : Automated full peripheral flux leakage testing of seamless and welded (except submerged arc-welded) ferromagnetic steel tubes for the detection of longitudinal and/or transverse imperfections* + Amendment 1 : 2019 + Amendment 2 : 2020 (overall evaluation : 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 (in-