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**Ultrasonic testing of steel plates for
pressure vessels**

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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 0801** : 2008), which has been technically revised.

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Ultrasonic testing of steel plates for pressure vessels

Introduction

This Japanese Industrial Standard has been prepared based on ISO 17577 : 2016, Edition 2, with some modifications of the technical contents.

Annex JA to Annex JC are unique to JIS and not given in the corresponding International Standard. 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 JD.

1 Scope

This Standard specifies a method for the automated or manual ultrasonic testing of carbon or alloy steel plates (excluding stainless steels) (hereafter referred to as steel plates) in a thickness range of 6 mm to 300 mm, used for nuclear reactors, boilers, pressure vessels, etc.

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

ISO 17577 : 2016 *Steel — Ultrasonic testing of steel flat products of thickness equal to or greater than 6 mm* (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 B 0601 *Geometrical Product Specifications (GPS) — Surface texture : Profile method — Terms, definitions and surface texture parameters*

JIS G 0202 *Glossary of terms used in iron and steel (Testing)*

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 G 3103 *Carbon steel and molybdenum alloy steel plates for boilers and pressure vessels*

JIS G 3106 *Rolled steels for welded structure*

JIS G 4304 *Hot-rolled stainless steel plate, sheet and strip*