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# **RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

**Part N**

**Ships Carrying Liquefied Gases in Bulk**

**RULES**

**2018            AMENDMENT NO.2**

Rule No.134            25 December 2018

Resolved by Technical Committee on 1 August 2018

An asterisk (\*) after the title of a requirement indicates that there is also relevant information in the corresponding Guidance.

AMENDMENT TO THE RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Rules for the survey and construction of steel ships” has been partly amended as follows:

**Part N SHIPS CARRYING LIQUEFIED GASES IN BULK**

**Chapter 6 MATERIALS OF CONSTRUCTION AND QUALITY CONTROL**

**6.4 Requirements for Metallic Materials (with reference to IGC Code 6.4)**

Paragraph 6.4.1 has been amended as follows.

**6.4.1 General Requirements for Metallic Materials\***

**1** The requirements for materials of construction are shown in the tables as follows:

- (1) **Table N6.1:** Plates, pipes (seamless and welded), sections and forgings for cargo tanks and process pressure vessels for design temperatures not lower than 0°C.
- (2) **Table N6.2:** Plates, sections and forgings for cargo tanks, secondary barriers and process pressure vessels for design temperatures below 0°C and down to -55°C.
- (3) **Table N6.3:** Plates, sections and forgings for cargo tanks, secondary barriers and process pressure vessels for design temperatures below -55°C and down to -165°C.
- (4) **Table N6.4:** Pipes (seamless and welded), forgings and castings for cargo and process piping for design temperatures below 0°C and down to -165°C.
- (5) **Table N6.5:** Plates and sections for hull structures required by **4.19.1-2** and **4.19.1-3**.
- (6) Castings for cargo and process piping for design temperatures not lower than 0°C are to be as deemed appropriate by the Society.

**2** Metallic materials specified in this Part, according to the requirements in 1.1.1-2, Part K of the Rules, are to comply with the requirements of Part K of the Rules in addition to those specified in this Part.

**EFFECTIVE DATE AND APPLICATION**

1. The effective date of the amendments is 25 December 2018.

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# **GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

**Part N**

**Ships Carrying Liquefied Gases in Bulk**

**GUIDANCE**

**2018          AMENDMENT NO.2**

Notice No.103          25 December 2018

Resolved by Technical Committee on 1 August 2018

Notice No.103 25 December 2018

## AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Guidance for the survey and construction of steel ships” has been partly amended as follows:

### **Part N SHIPS CARRYING LIQUEFIED GASES IN BULK**

#### **Amendment 2-1**

### **N6 MATERIALS OF CONSTRUCTION AND QUALITY CONTROL**

#### **N6.5 Welding of Metallic Materials and Non-destructive Testing**

##### **N6.5.3 Welding Procedure Tests for Cargo Tanks, Process Pressure Vessels and Secondary Barriers**

Sub-paragraph -6 has been added as follows.

**6** For the purpose of the requirements in 6.5.3-7, Part N of the Rules, the test temperature of impact tests is to be the temperature prescribed for the base material being joined. However, this temperature may be determined in accordance with the requirements in N4.19.2.

##### **N6.5.5 Production Weld Tests**

Sub-paragraph -1(8) has been amended as follows.

**1** Production weld tests are to be in accordance with the requirements specified in **6.5.5, Part N** and **Chapter 11, Part D of the Rules** and are also to comply with the following requirements:

((1) to (7) are omitted.)

(8) Impact test

The specified value for the impact test are ~~as given in Table M4.8, Part M of the Rules~~ to be the value prescribed for the base material being joined. However, test temperature may be determined in accordance with the requirements in N4.19.2.

#### **EFFECTIVE DATE AND APPLICATION (Amendment 2-1)**

1. The effective date of the amendments is 25 December 2018.

## **Annex 2 GUIDANCE FOR DUAL FUEL BOILERS**

### **Chapter 1 GENERAL**

#### **1.3 Drawings and Data**

Sub-paragraph (1) has been amended as follows.

The drawings and data to be submitted are as follows.

- (1) Drawings and data for approval
  - (a) (Omitted)
  - (b) Items specified in **18.1.3(1)(a), ~~(3)(c)~~ and ~~(5)(e)~~, Part D of the Rules**  
((c) to (l) are omitted.)
- (2) (Omitted)

## **Annex 3 GUIDANCE FOR HIGH PRESSURE DUAL FUEL DIESEL ENGINES**

### **Chapter 1 GENERAL**

#### **1.3 Drawings and Data**

Sub-paragraph (1) has been amended as follows.

The drawings and data to be submitted are as follows.

- (1) Drawings and data for approval
  - (a) (Omitted)
  - (b) Drawings and data specified in **18.1.3(1)(a), ~~(2)(b)~~ and ~~(3)(e)~~, Part D of the Rules**  
((c) to (t) are omitted.)
- (2) (Omitted)

## Annex 4 GUIDANCE FOR LOW PRESSURE DUAL FUEL DIESEL ENGINES

### Chapter 1 GENERAL

#### 1.3 Drawings and Data

Sub-paragraph (1) has been amended as follows.

The drawings and data to be submitted are as follows.

- (1) Drawings and data for approval
  - (a) (Omitted)
  - (b) Drawings and data specified in **18.1.3(1)(a), ~~(2)(b)~~ and ~~(5)(e)~~, Part D of the Rules** ((c) to (q) are omitted.)
- (2) (Omitted)

#### EFFECTIVE DATE AND APPLICATION (Amendment 2-2)

1. The effective date of the amendments is 25 December 2018.
2. Notwithstanding the amendments to the Guidance, the current requirements apply to ships for which the date of contract for construction\* is before the effective date.
3. Notwithstanding the provision of preceding 2., the amendments to the Guidance may apply to ships for which the date of contract for construction\* is before the effective date upon request by the owner or the manufacturer.

\* “contract for construction” is defined in the latest version of IACS Procedural Requirement (PR) No.29.

#### IACS PR No.29 (Rev.0, July 2009)

1. The date of “contract for construction” of a vessel is the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. This date and the construction numbers (i.e. hull numbers) of all the vessels included in the contract are to be declared to the classification society by the party applying for the assignment of class to a newbuilding.
2. The date of “contract for construction” of a series of vessels, including specified optional vessels for which the option is ultimately exercised, is the date on which the contract to build the series is signed between the prospective owner and the shipbuilder. For the purpose of this Procedural Requirement, vessels built under a single contract for construction are considered a “series of vessels” if they are built to the same approved plans for classification purposes. However, vessels within a series may have design alterations from the original design provided:
  - (1) such alterations do not affect matters related to classification, or
  - (2) If the alterations are subject to classification requirements, these alterations are to comply with the classification requirements in effect on the date on which the alterations are contracted between the prospective owner and the shipbuilder or, in the absence of the alteration contract, comply with the classification requirements in effect on the date on which the alterations are submitted to the Society for approval.The optional vessels will be considered part of the same series of vessels if the option is exercised not later than 1 year after the contract to build the series was signed.
3. If a contract for construction is later amended to include additional vessels or additional options, the date of “contract for construction” for such vessels is the date on which the amendment to the contract, is signed between the prospective owner and the shipbuilder. The amendment to the contract is to be considered as a “new contract” to which 1. and 2. above apply.
4. If a contract for construction is amended to change the ship type, the date of “contract for construction” of this modified vessel, or vessels, is the date on which revised contract or new contract is signed between the Owner, or Owners, and the shipbuilder.

Note:

This Procedural Requirement applies from 1 July 2009.

## **N2 SHIP SURVIVAL CAPABILITY AND LOCATION OF CARGO TANKS**

### **N2.4 Location of Cargo Tanks**

Paragraph N2.4.3 has been amended as follows.

#### **N2.4.3 Suction Wells**

The suction wells which comply with the requirements in 2.4.3, Part N of the Rules are not to be installed less than ~~800 mm~~ the distance “d” specified in 2.4.1, Part N of the Rules from the shell plating.

### **EFFECTIVE DATE AND APPLICATION (Amendment 2-3)**

1. The effective date of the amendments is 25 June 2019.
2. Notwithstanding the amendments to the Guidance, the current requirements apply to ships for which the date of contract for construction is before the effective date.