

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

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

**Part R**

**Fire Protection, Detection and Extinction**

**Rules for the Survey and Construction of Steel Ships**

**Part R**

**2019 AMENDMENT NO.1**

**Guidance for the Survey and Construction of Steel Ships**

**Part R**

**2019 AMENDMENT NO.1**

Rule No.39 / Notice No.26      14 June 2019

Resolved by Technical Committee on 30 January 2019

**ClassNK**  
NIPPON KAIJI KYOKAI

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

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

**Part R**

**Fire Protection, Detection and  
Extinction**

**RULES**

**2019 AMENDMENT NO.1**

Rule No.39      14 June 2019

Resolved by Technical Committee on 30 January 2019

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 R FIRE PROTECTION, DETECTION AND EXTINCTION**

**Chapter 4 PROBABILITY OF IGNITION**

**4.5 Cargo Areas of Tankers**

**4.5.1 Separation of Cargo Tanks and Location of Fuel Tanks\***

Sub-paragraph -8 has been amended as follows.

**8** In cases where fuel tanks are located in the cargo area of the oil tankers defined in **2.1.1(6), Part 1 of the Rules for Marine Pollution Prevention Systems**, the following (1) to (5) are to apply. The “cargo tank block” referred to in the following (1) and (2) means the part of the ship extending from the aft bulkhead of the aft most cargo or slop tank to the forward bulkhead of the forward most cargo or slop tank, extending to the full depth and beam of the ship, but not including the area above the deck of the cargo or slop tank.

- (1) Fuel tanks located with a common boundary to cargo or slop tanks are not to be situated within nor extend partly into the cargo tank block.
- (2) Such Fuel tanks specified in (1) above may, however, be situated at the forward and aft ends aft and/or forward of the cargo tank block instead of cofferdams.
- ~~(23)~~ ~~Fuel tanks are to extend neither fully nor partly into cargo or slop tanks. They may, however, be accepted when located as independent tanks on open deck in the cargo area subject to spill and fire safety considerations.~~
- ~~(3)~~ ~~Fuel tanks are not permitted to extend into the protective area of cargo tanks required by **Chapter 3, Part 3 of the Rules for Marine Pollution Prevention Systems**.~~
- (4) The arrangement of independent fuel tanks and associated fuel piping systems, including the pumps, can be as for fuel tanks and associated fuel piping systems located in the machinery spaces.
- (5) For electrical equipment, the requirements to hazardous area classification specified in **Part H** are to be ~~taken into account~~ met.

**EFFECTIVE DATE AND APPLICATION**

1. The effective date of the amendments is 1 July 2019.
2. Notwithstanding the amendments to the Rules, the current requirements apply to ships other than those for which the application for Classification Survey during Construction or the application for examinations of altered parts on arrangement of fuel tanks is dated on or after the effective date.

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

**Part R**

**Fire Protection, Detection and  
Extinction**

**GUIDANCE**

**2019 AMENDMENT NO.1**

Notice No.26      14 June 2019

Resolved by Technical Committee on 30 January 2019

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 R FIRE PROTECTION, DETECTION AND EXTINCTION**

Amendment 1-1

**R4 PROBABILITY OF IGNITION**

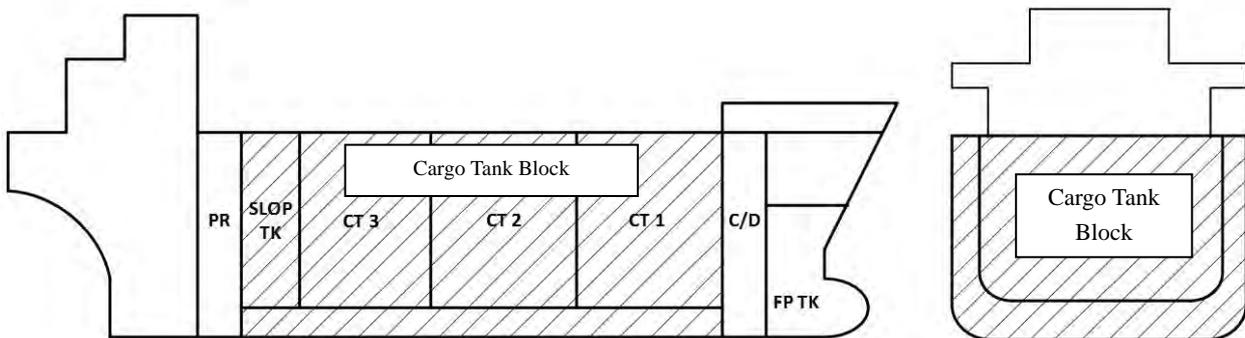
**R4.5 Cargo Areas of Tankers**

**R4.5.1 Separation of Cargo Tanks and Location of Fuel Tanks**

Sub-paragraph -12 has been amended as follows.

12 ~~An example of the “cargo tank block” referred to in 4.5.1-8(1), Part R of the Rules means the part of the ship extending from the aft bulkhead of the aftermost cargo or slop tank to the forward bulkhead of the forward most cargo or slop tank, extending to the full depth and beam of the ship, but not including the area above the deck of the cargo or slop tank (refer to is shown in Fig. R4.5.1-5).~~

Fig. R4.5.1-5 Example of Cargo Tank Block



- SLOP TK : Slop tank
- CT1/2/3 : NO.1/2/3 Cargo tank
- PR : Cargo pump room
- C/D : Cofferdam
- FP TK : Forepeak tank

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

- 1.** The effective date of the amendments is 1 July 2019.
- 2.** Notwithstanding the amendments to the Guidance, the current requirements apply to ships other than those for which the application for Classification Survey during Construction or the application for examinations of altered parts on arrangement of fuel tanks is dated on or after the effective date.

## R35 INERT GAS SYSTEMS

### R35.2 Engineering Specifications

#### R35.2.2 Requirements for All Systems

Sub-paragraphs -8 and -9 have been amended as follows.

**8** The wording “forward of” referred to in **35.2.2-3(2)(a) and (f)**, and **35.2.2-4(2)(a), Part R of the Rules** is to be interpreted to mean “downstream of”.

**9** The operational status of the inert gas system referred to in **35.2.2-4(1), Part R of the Rules** is to be based on indication that inert gas is being supplied downstream of the gas regulating valve and on the pressure or flow of the inert gas mains downstream of the non-return devices. However, the operational status of the inert gas system as required by **35.2.2-4(1), Part R of the Rules** is not to be considered to require additional indicators and alarms other than those specified in **35.2.2-4, Part R of the Rules** and **35.2.3(2) or 35.2.4(2), Part R of the Rules**, as appropriate.

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

1. The effective date of the amendments is 1 July 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.  
\* “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.

## **R20 PROTECTION OF VEHICLE AND RO-RO SPACES**

### **R20.5 Fire-extinction**

#### **R20.5.1 Fixed Fire-extinguishing Systems**

Sub-paragraph -3 has been amended as follows.

**3** The wording “other fixed fire-extinguishing system” specified in **20.5.1-3, Part R of the Rules** means the system complying with the requirements of sections 1, 2, 3 and 5 of “*Revised Guidelines for the Design and Approval of Fixed Water-based Fire-fighting Systems for Ro-ro Spaces and Special Category Spaces*” (MSC.1/Circ.1430/Rev.1).

## **R27 FIXED PRESSURE WATER-SPRAYING AND WATER-MIST FIRE-EXTINGUISHING SYSTEMS**

### **R27.2 Engineering Specifications**

Paragraph R27.2.3 has been amended as follows.

#### **R27.2.3 Fixed Water-based Fire-fighting Systems for Ro-ro Spaces and Vehicle Spaces**

“Approved system” specified in **27.2.3, Part R of the Rules** means a system which complies with the requirements of “*Revised Guidelines for the Design and Approval of Fixed Water-based Fire-fighting Systems for Ro-ro Spaces and Special Category Spaces*” (MSC.1/Circ.1430/Rev.1) and is approved by organizations authorized by the Administration or deemed appropriate by the Society.

### **EFFECTIVE DATE AND APPLICATION (Amendment 1-3)**

- 1.** The effective date of the amendments is 1 January 2021.
- 2.** Notwithstanding the amendments to the Guidance, the current requirements apply to fixed water-based fire-fighting systems installed in ro-ro spaces and vehicle spaces before the effective date.