

# **Ventilation for Emergency Generator Rooms**

## **Amended Rules and Guidance**

Rules for the Survey and Construction of Steel Ships Part D

Rules for High Speed Craft

Guidance for the Survey and Construction of Steel Ships Part D

Guidance for High Speed Craft

## **Reason for Amendment**

Requirements related to emergency generator room ventilation are stipulated in regulation II-2/9 of SOLAS and IACS Unified Requirement (UR) M75, and these requirements have already been incorporated into the NK Rules.

Regulation II-2/9 specifies that ventilating systems without means for closure may be provided for emergency generator rooms, but only on the condition that fixed gas fire-extinguishing systems are also not being provided. IACS UR M75, also specifies that ventilating systems may be provided for emergency generator rooms, but states that such systems are usually provided with means for closure and makes no mention of cases where systems without means of closure may be provided.

IACS, therefor, adopted an amendment to IACS UR M75 as IACS UR M75(Rev.1) in January 2021 to clarify the application of the UR and also ensure it is consistent with regulation II-2/9 of SOLAS.

Accordingly, relevant requirements were amended based upon IACS UR M75(Rev.1).

## **Outline of Amendment**

Clarified that requirements related to closure means for ventilating systems of emergency generator rooms apply only when such closure means are installed.

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

## **Part D                    MACHINERY INSTALLATIONS**

### **Chapter 1    GENERAL**

#### **1.3            General Requirements for Machinery Installations**

##### **1.3.5            Ventilating Systems for Machinery Spaces\***

Sub-paragraph -2 has been amended as follows.

**2**    In cases where ventilation louvers with means for closure are fitted to emergency generator rooms ~~or~~ and closing appliances are fitted to ventilators serving emergency generator rooms, such louvers or closing appliances are to comply with the requirements specified in the following (1) to (4):

- (1) Louvers and closing appliances may either be hand-operated or power-operated (hydraulic, pneumatic or electric) and are to be operable under fire conditions.
- (2) Hand-operated louvers and closing appliances are to ~~comply with the following (a) and (b):~~  
~~(a) Louvers and closing appliances are to be kept open during normal operation of the vessel; and,~~  
~~(b) In addition, Corresponding instruction plates are to be provided at the location where hand-operation is provided.~~
- (3) Power-operated louvers and closing appliances are to ~~comply with the following (a) to (c):~~  
~~(a) Louvers and closing appliances are to be of a fail-to-open type;~~  
~~(b) However, Closed closed power-operated louvers and closing appliances are acceptable during normal operation of the vessel; and,~~  
~~(c) Power-operated louvers and closing appliances are to open automatically whenever the emergency generator is starting or in operation.~~
- (4) Ventilation openings with means for closure, ~~louvers and closing appliances~~ are to ~~comply with the following (a) to (c):~~  
~~(a) It is to be possible to close ventilation openings by a manual hand-operation from a clearly marked safe position outside the space where the closing operation can be easily confirmed;~~  
~~(b) In addition, The louver status (open or closed) is to be indicated at the this position of the manual operation specified in (a) above; and~~  
~~(c) Closing the closing of the louvers and closing appliances is not to be possible from any other remote position other than the this position of manual operation specified in (a) above.~~

“Rules for high speed craft” has been partly amended as follows:

## **Part 7      EQUIPMENT AND PAINTING**

### **Chapter 3    BULWARKS, GUARDRAILS, FREEING ARRANGEMENTS, CARGO PORTS AND OTHER SIMILAR OPENINGS, SIDE SCUTTLES, VENTILATORS AND GANGWAYS**

#### **3.6      Ventilators**

##### **3.6.3      Closing Appliances\***

Sub-paragraph -3 has been amended as follows.

**3**      In cases where ventilation louvers with means for closure are fitted to emergency generator rooms or closing appliances are fitted to ventilators serving emergency generator rooms, the requirements specified in the **1.2.5-2, Part 9** are to be satisfied.

## Part 9      MACHINERY INSTALLATIONS

### Chapter 1    GENERAL

#### 1.2      General Requirements for Machinery Installations

##### 1.2.5      Ventilating Systems for Machinery Spaces\*

Sub-paragraph -2 has been amended as follows.

2      In cases where ventilation louvers with means for closure are fitted to emergency generator rooms ~~or~~ and closing appliances are fitted to ventilators serving emergency generator rooms, such louvers or closing appliances are to comply with the requirements specified in the following (1) to (4):

- (1) Louvers and closing appliances may either be hand-operated or power-operated (hydraulic, pneumatic or electric) and are to be operable under fire conditions.
- (2) Hand-operated louvers and closing appliances are to ~~comply with the following (a) and (b):~~  
~~(a) Louvers and closing appliances are to be kept open during normal operation of the vessel; and~~  
~~(b) In addition, Corresponding instruction plates are to be provided at the location where hand-operation is provided.~~
- (3) Power-operated louvers and closing appliances are to ~~comply with the following (a) to (c):~~  
~~(a) Louvers and closing appliances are to be of a fail-to-open type;~~  
~~(b) However, Closed closed power-operated louvers and closing appliances are acceptable during normal operation of the vessel; and~~  
~~(c) Power-operated louvers and closing appliances are to open automatically whenever the emergency generator is starting or in operation.~~
- (4) Ventilation openings, ~~louvers and closing appliances~~ with means for closure are to ~~comply with the following (a) to (c):~~  
~~(a) It is to be possible to close ventilation openings by a manual hand-operation from a clearly marked safe position outside the space where the closing operation can be easily confirmed;~~  
~~(b) In addition, The louver status (open or closed) is to be indicated at the this position of the manual operation specified in (a) above; and~~  
~~(c) Closing the closing of the louvers and closing appliances is not to be possible from any other remote position other than the this position of manual operation specified in (a) above.~~

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

## **Part D            MACHINERY INSTALLATIONS**

### **D1    GENERAL**

#### **D1.3    General Requirements for Machinery Installations**

Paragraph D1.3.5 has been deleted.

##### ~~**D1.3.5    Ventilating Systems for Machinery Spaces**~~

~~The wording “louvers” specified in 1.3.5-2, Part D of the Rules means the following:~~

- ~~(1) Those which are hand operated;~~
- ~~(2) Those which are power operated;~~
- ~~(3) Those which are of fixed type with a hand operated closing door; and~~
- ~~(4) Those which are of fixed type with an automatic closing door.~~

“Rules for high speed craft” has been partly amended as follows:

## **Part 9     MACHINERY INSTALLATIONS**

### **Chapter 1   GENERAL**

#### **1.2     General Requirements for Machinery Installations**

Paragraph 1.2.5 has been deleted.

##### ~~**1.2.5     Ventilating Systems for Machinery Spaces**~~

~~The wording “louvers” specified in 1.2.5.2, Part 9 of the Rules means the following:~~

- ~~(1) Those which are hand-operated;~~
- ~~(2) Those which are power-operated;~~
- ~~(3) Those which are of fixed type with a hand-operated closing door; and~~
- ~~(4) Those which are of fixed type with an automatic closing door.~~