

Merchant Shipping (Safety Convention) (Amendment) Regulations 2010

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No. S 366

**MERCHANT SHIPPING ACT
(CHAPTER 179)**

**MERCHANT SHIPPING (SAFETY CONVENTION) (AMENDMENT)
REGULATIONS 2010**

In exercise of the powers conferred by section 100 of the Merchant Shipping Act, the Maritime and Port Authority of Singapore, with the approval of the Minister for Transport, hereby makes the following Regulations:

Citation and commencement

1. These Regulations may be cited as the Merchant Shipping (Safety Convention) (Amendment) Regulations 2010 and shall come into operation on 1st July 2010.

Amendment of Regulation 2 of Chapter I

2. Regulation 2 of Chapter I of the Merchant Shipping (Safety Convention) Regulations (Rg 11) (referred to in these Regulations as the principal Regulations) is

amended by deleting the definition of “Convention” and substituting the following definition:

““Convention” or “present Convention” means the International Convention for the Safety of Life at Sea 1974 and any amendment thereto which has come into force and has been accepted by the Government;”.

Amendment of Regulation 2 of Chapter II-1

3. Regulation 2 of Chapter II-1 of the principal Regulations is amended by deleting the full-stop at the end of paragraph (z) and substituting a semi-colon, and by inserting immediately thereafter the following paragraph:

“(aa) “2008 IS Code” means the International Code on Intact Stability, 2008, consisting of an introduction, Part A (the provisions of which shall be treated as mandatory) and Part B (the provisions of which shall be treated as recommendatory), as adopted by resolution MSC.267(85), and any amendment thereto which has come into force and has been accepted by the Government.”.

Amendment of Regulation 5 of Chapter II-1

4. Regulation 5 of Chapter II-1 of the principal Regulations is amended —

- (a) by deleting the word “Information” in the heading to that Regulation; and
- (b) by inserting, at the end of paragraph (a), the words “In addition to any other applicable requirements of these Regulations, ships having a length of 24 metres and upwards constructed on or after 1st July 2010 shall, at the minimum, comply with the requirements of Part A of the 2008 IS Code.”.

Amendment of Regulation 26 of Chapter II-1

5. Regulation 26 of Chapter II-1 of the principal Regulations is amended —

- (a) by deleting the word “lubrication” in paragraph (k) and substituting the word “lubricating”; and
- (b) by deleting the words “Regulation 15 of Chapter II-2” in the footnote to paragraph (k) and substituting the words “Regulation 4(b) of Chapter II-2”.

Amendment of Regulation 41 of Chapter II-1

6. Regulation 41 of Chapter II-1 of the principal Regulations is amended by inserting, immediately after paragraph (e), the following paragraph:

- “(f) In passenger ships, supplementary lighting shall be provided in all cabins to clearly indicate the exit, so that occupants will be able to find their way to the door. Such lighting, which may be connected to an emergency source of power or have a self-contained source of electrical power in each cabin, shall automatically illuminate when power to the normal cabin lighting is lost, and shall remain on for a minimum of 30 minutes.”.

New Part F of Chapter II-1

7. Chapter II-1 of the principal Regulations is amended by inserting, immediately after Regulation 54, the following Part:

“PARAGRAPH PAR. — *PART F — ALTERNATIVE DESIGN AND ARRANGEMENTS*

REGULATION 55

ALTERNATIVE DESIGN AND ARRANGEMENTS

Purpose

- (a) The purpose of this Regulation is to provide a methodology for alternative design and arrangements for machinery and electrical installations.

General

- (b) (i) Machinery and electrical installation design and arrangements may deviate from the requirements set out in Parts C, D and E, provided that the alternative design and arrangements meet the intent of the requirements concerned and provide an equivalent level of safety to this Chapter.
- (ii) When any alternative design or arrangements deviate from the prescriptive requirements of Parts C, D and E, an engineering analysis, evaluation and approval of the design and arrangements shall be carried out in accordance with this Regulation.

Engineering Analysis

- (c) The engineering analysis shall be prepared and submitted to the Director, based on the guidelines developed by the Organisation¹ and shall include, as a minimum, the following elements:

¹ Refer to the Guidelines on Alternative Design and Arrangements for SOLAS

Chapters II-1 and III (MSC.1/Circ.1212)

- (i) determination of the ship type, machinery, electrical installation and spaces concerned;
- (ii) identification of the prescriptive requirements with which the machinery and electrical installation will not comply;
- (iii) identification of the reason why the proposed design will not meet the prescriptive requirements supported by compliance with other recognised engineering or industry standards;
- (iv) determination of the performance criteria for the ship, machinery, electrical installation and the spaces concerned addressed by the relevant prescriptive requirements:
 - (1) the performance criteria shall provide a level of safety not inferior to the relevant prescriptive requirements contained in Parts C, D and E; and
 - (2) the performance criteria shall be quantifiable and measurable;
- (v) detailed description of the alternative design and arrangements, including a list of the assumptions used in the design and any proposed operational restrictions or conditions;
- (vi) technical justification demonstrating that the alternative design and arrangements meet the safety performance criteria; and
- (vii) risk assessment based on identification of the potential faults and hazards associated with the proposal.

Evaluation of the alternative design and arrangements

- (d)
 - (i) The engineering analysis required in paragraph (c) shall be evaluated and approved by the Director, taking into account the guidelines developed by the Organisation².
- ² Refer to the Guidelines on Alternative Design and Arrangements for SOLAS Chapters II-1 and III (MSC.1/Circ.1212).
- (ii) A copy of the documentation, as approved by the Director, indicating that the alternative design and arrangements comply with this Regulation, shall be carried on board the ship.

Exchange of information

- (e) The Director shall communicate to the Organisation pertinent information concerning