# RULES FOR THE SURVEY AND CONSTRUCTION OF PASSENGER SHIPS

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF PASSENGER SHIPS

Rules for the Survey and Construction of Passenger Ships

2013 AMENDMENT NO.1

Guidance for the Survey and Construction of Passenger Ships

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Rule No.40 / Notice No.32 30th May 2013
Resolved by Technical Committee on 4th February 2013
Approved by Board of Directors on 4th March 2013



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Rule No.40 30th May 2013

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

"Rules for the survey and construction of passenger ships" has been partly amended as follows:

### Amendment 1-1

### Part 2 CLASS SURVEY

### **Chapter 2 CLASSIFICATION SURVEYS**

### 2.1 Classification Survey during Construction

### 2.1.7 Documents to be maintained on board

Sub-paragraph -1(3) has been amended as follows.

- **1** At the completion of a classification survey, the Surveyor confirms that the following drawings, plans, manuals, lists, etc., as applicable, of finished version are on board.
- ((1) and (2) are omitted)
- (3) Finished plans specified in 2.1.8-1

Sub-paragraph -2(1) has been amended as follows.

- 2 For ships engaged on international voyages, the Surveyor confirms that the Ship Construction File contains the necessary documents from the following drawings, plans, manuals and documents, and that the Construction File is on board the ship. Duplicate documents as in -1 are not required.
- (1) Finished plans of hull structural drawings specified in **2.1.8-1**
- ((2) to (9) are omitted)

Paragraph 2.1.8 has been amended as follows.

### 2.1.8 Finished Plans

- **1** At the completion of a classification survey, an applicant of the classification of the ship is to prepare finished plans regarding the following drawings, etc., and submit to the Society.
- (1) General arrangement
- (2) Midship section, scantling plans (construction profile), deck plans, shell expansion, transverse bulkheads, plans for rudder and rudder stock, and plans for cargo hatch covers
- (3) Bilge and ballast piping diagrams
- (4) Fire protection plans
- (5) Fire extinguishing appliances arrangement
- (6) Plans and data showing the navigation bridge visibilities
- 2 For ships that are required to maintain a Ship Construction File on board in accordance with
- 2.1.7-2, the documents contained in the Ship Construction File are also to be submitted to the

Society. However, it is not necessary to submit duplicates of any of the documents specified in -1 above and 2.1.7-1.

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

- 1. The effective date of the amendments is 30 November 2013.
- 2. Notwithstanding the amendments to the Rules, the current requirements may apply to ships for which the date of contract for construction is before the effective date.

### Amendment 1-2

### Part 2 CLASS SURVEY

### **Chapter 2 CLASSIFICATION SURVEYS**

### 2.1 Classification Survey during Construction

### 2.1.7 Documents to be maintained on board

Sub-paragraph -1 has been amended as follows.

- 1 At the completion of a classification survey, the Surveyor confirms that the following drawings, plans, manuals, lists, etc., as applicable, of finished version are on board.
- (1) Documents approved by the Society or their copies
  - (a) Loading manuals (1.1.1-4, Part 3)
  - (b) Operating and maintenance manuals for the door and inner door (7.1.1-1 and 7.4.3-4, Part 3)
  - (c) Damage control plans (3.2.1, Part 4)
  - (d) Stability information booklets (4.3, Part 4)
  - (e) Plans and documents for in-water surveys (5.1.2, Part 2)
  - (f) Coating Technical File (1.1.1-4, Part 3)
- (2) Other manuals, etc.
  - (a) Operation manuals for the loading computer (1.1.1-4, Part 3)
  - (b) Towing and mooring fitting arrangement plans (1.1.1-4, Part 3)
  - (c) Booklets for the damage control (3.2.2, Part 4)
  - (d) Operating and maintenance instructions for ship machinery and equipment (1.1.1-3, Part 5)
  - (e) Fire Control Plans, Fire Safety Operational Booklets, Training manuals and Maintenance plans (5.1.1, Part 7)
  - (f) Operation manuals for the helicopter facilities (5.1.1, Part 7)
  - (g) Emergency Towing Procedures (1.1.1-4, Part 3)
  - (h) Operation manuals for the stability computer (2.5.1(2), Part 4)
- (3) Finished plans specified in **2.1.8**

### Part 4 SUBDIVISION AND STABILITY

### **Chapter 2 SUBDIVISION**

### 2.5 Capability after flooding

Paragraph 2.5.1 has been amended as follows.

### 2.5.1 General (SOLAS Chap.II-1 Reg.8-1)

Ships whose length  $(L_f)$  is 120 m or more or having three or more main vertical zones are to be designed so that the systems specified in Regulation 21.4 Chapter II-2, SOLAS Convention, remain operational when the ship is subject to flooding of any single watertight compartment comply with the following requirements.

- (1) Ships are to be designed so that the systems specified in *SOLAS* Chap.II-1 Reg.21.4 remain operational when the ship is subject to flooding of any single watertight compartment.
- (2) Ships are to be provided with either onboard stability computers or shore-based support approved by the Society for the purpose of providing operational information to the Master for safe return to port after a flooding casualty.

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

- **1.** The effective date of the amendments is 1 January 2014.
- 2. Notwithstanding the amendments to the Rules, the current requirements may apply to ships the keels of which were laid or which were at *a similar stage of construction* before the effective date.
  - (Note) The term "a similar stage of construction" means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 tonnes or 1% of the estimated mass of all structural material, whichever is the less.

# GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF PASSENGER SHIPS

2013 AMENDMENT NO.1

Notice No.32 30th May 2013 Resolved by Technical Committee on 4th February 2013 Notice No.32 30th May 2013

AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF PASSENGER SHIPS

"Guidance for the survey and construction of passenger ships" has been partly amended as follows:

### Amendment 1-1

### Part 6 ELECTRICAL INSTALLATIONS

### Chapter 1 GENERAL

### 1.1 General

Paragraph 1.1.1 has been amended as follows.

### 1.1.1 Scope

In accordance with 1.1.1-3, Part 6 of the Rules, requirements in 2.9.11-32, Part H of the Rules for the Survey and Construction of Steel Ships are to be arranged as follows:

- (1) The wording "fire protection boundary high fire risk areas" defined in 2.9.11-35, Part H of the Rules Guidance for the Survey and Construction of Steel Ships includes divisions of main vertical zones.
- (2) Followings are added to the list of electrical installations in H2.9.11-63(45), Part H of the Guidance for the Survey and Construction of Steel Ships.
  - (a) Control and power systems to power operated fire doors and status indication for all fire doors
  - (b) Low location lighting (of electrical type)
- (3) Where ships are carrying more than 36 passengers, the "similar spaceshigh fire risk areas" defined in H2.9.11-57(2), Part H of the Guidance for the Survey and Construction of Steel Ships include the following spaces.
  - (a) Public spaces containing flammable furniture or equipment, and having deck areas of 50m<sup>2</sup> or more Accommodation spaces of greater fire risk (Regulation 9.2.2.3.2.2(8), Chapter II-2, SOLAS Convention)
  - (b) Barber shops Machinery spaces and main galleys (Regulation 9.2.2.3.2.2(12), Chapter II-2, SOLAS Convention)
  - (c) Other spaces in which flammable liquids are stowed (Regulation 9.2.2.3.2.2(14), Chapter II-2, *SOLAS* Convention)

# Annex 7-1 INTERPRETATION OF PROVISION OF CHAPTER II-2, SOLAS CONVENTION ON PASSENGER SHIPS

### 1 INTERPRETATION OF PROVISION OF CHAPTER II-2, SOLAS CONVENTION

### 1.1 Interpretation

Table 7-1-A1 has been amended as follows.

Table 7-1-A1 Interpretation of SOLAS II-2

Accommodation spaces are those spaces used for public spaces, corridors, lavatories, cabins, offices, hospitals, cinemas, games and hobbies rooms, barber shops, pantries containing no cooking appliances and similar spaces.  **The Polloving appliances** and similar spaces**.**  **The Polloving devices (1) and (2) may be provided in in grantries containing such appliances are not to be regarded as a pantry.  **(1) Toasters, microwave ovens, induction heaters and similar appliances may be provided in these pantries regardless of their power, and a surface temperature above 150°C. The Folloving devices (1) and (2) may be provided in the spantries regardless of their power, and (2) Electrically heated cooking plates and hot plates for keeping food warm each of them with a maximum power of 5 kW. However, coffee machines, dish washers and water hoilers with no exposed hot surfaces may be provided in these pantries regardless of their power, and (2) Electrically heated cooking plates and hot plates for keeping food warm each of them with a maximum power of 2 kW. and a surface temperature or above 150°C.  *2. Examples of "similar spaces" are passenger spaces, crew spaces, beauty partors, pharmacies, baths, water closets, showers, consultation rooms, operating rooms, gymnasium and nursery.  *3.45  **Service spaces are those spaces used for galleys, pantries containing cooking appliances** and trunks to such spaces.  **Service spaces are those spaces used for galleys, pantries containing cooking appliances** and trunks to such spaces.  **Service spaces are those spaces used for galleys, pantries containing cooking appliances** and trunks to such spaces.  **Service spaces are those spaces used for galleys, pantries containing cooking appliances** and trunks to such spaces.  **Service spaces are those spaces used for galleys, pantries containing cooking appliances** and trunks to such spaces.  **The Folloving devices (1) and (2) may be provided in "pantries containing cooking appliances** and but plates for keeping food war		1	etation of SOLAS II-2
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and water boilers may be provided in these pantries			
			regardless of their power; and

drying rooms and workshops.
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### EFFECTIVE DATE AND APPLICATION (Amendment 1-1)

1. The effective date of the amendments is 30 May 2013.

### Amendment 1-2

## Annex 7-1 INTERPRETATION OF PROVISION OF CHAPTER II-2, SOLAS CONVENTION ON PASSENGER SHIPS

### 1 INTERPRETATION OF PROVISION OF CHAPTER II-2, SOLAS CONVENTION

### 1.1 Interpretation

Interpretation of provision of Chapter II-2, *SOLAS* Convention (Amendments of Res. *MSC*.99(73)) on passenger ships are to be in accordance with **Table 7-1-A1**. Figures and tables referred to in provision and interpretation of provision are to comply with **1.2** respectively.

Table 7-1-A1 has been amended as follows.

Table 7-1-A1 Interpretation of SOLAS II-2

Number	SOLAS	Interpretation
	(Omitte	d)
<u>21.4</u>	Safe return to port*	*: In accordance with MSC.1/Circ.1437 in addition to
		<u>MSC.1/Circ.1369.</u>

### 2 INTERPRETATION OF PROVISION OF FIRE SAFETY SYSTEMS CODE

### 2.1 Interpretation

Interpretation of provision of the International Code for Fire Safety Systems (Res. MSC.98(73), hereinafter, referred to as *FSS* Code) on passenger ships are to be in accordance with **Table 7-1-B1**. Figures and tables referred to in interpretations of provision are to comply with **2.2**.

Table 7-1-B1 has been amended as follows.

Table 7-1-B1 Interpretations of FSS Code

N		ations of FSS Code
Number	FSS Code	Interpretations
	(Omitted)	
FSS	Any required fixed fire detection and fire alarm	*: The type of required fire detection is specified in the
<del>9.2.1.1</del>	system* with manually operated call points shall be	following
	eapable of immediate operation at all times (this does	(1) constant temperature type spot detectors (which comes
	not require a backup control panel). Notwithstanding	into action when the ambient temperature in one place
	this, particular spaces may be disconnected, for	exceeds a preset value and comes to operate due to heat in
	example, workshops during hot work and ro-ro spaces	one place)
	during on and off-loading. The means for	(2) compensation type spot detectors (which comes into
	disconnecting the detectors shall be designed to	action when the rate of temperature rise in the ambient
	automatically restore the system to normal surveillance	temperature exceeds a preset rate and comes to operate due
	after a predetermined time that is appropriate for the	to heat in one place and have the performance of constant
	operation in question. The space shall be manned or	temperature type spot detector)
	provided with a fire patrol when detectors required by	(3) ionizing type (which comes into action when the
	regulation are disconnected. Detectors in all other	detector comes in contact with a density of smoke, and
	spaces shall remain operational.	comes to operate on sensing the change in the ion current
		<del>due to smoke.</del>
		(4) photovoltaic type (which comes into action when the
		detector comes in contact with a density of smoke, and
		comes to operate on sensing the change in received amount
		of photoelectron due to smoke)
		Sample extraction smoke detection system may be accepted
		only in the following spaces as the other type.
		(a) cargo spaces, other than special category spaces,
		intended for the carriage of motor vehicles with fuel
		in their tanks for their own propulsion (regulation
		<del>20)</del>
		(b) cargo spaces which is not easily accessible
		<del>(regulation 7.6)</del>
		(e) eargo spaces, other than ro/ro eargo spaces,
		intended for the carriage of motor vehicles with fuel
		in their tanks for their own propulsion (regulation
		<del>20)</del>
		(d) cargo spaces intended for carriage of dangerous
		goods (regulation 19)
<del>FSS</del>	The system and equipment shall be suitably designed*	*: For Japanese ship special design standard is required.
<del>9.2.1.5</del>	to withstand supply voltage variation and transients,	
	ambient temperature changes, vibration, humidity,	
	shock, impact and corrosion normally encountered in	
	ships. All electrical and electronic equipment on the	
	bridge or in the vicinity of the bridge shall be tested for	
	electromagnetic compatibility, taking into account the	
l	recommendations developed by the Organization.	

(Omitted)		
<del>FSS</del>	Smoke detectors required in all stairways, corridors	
<del>9.2.3.1.2</del>	and escape routes within accommodation spaces shall	*: The "sensitivity limit" is to comply with R29.2.3-2, Part
	be certified to operate before the smoke density	R of the Guidance for the Survey and Construction of
	exceeds 12.5% obscuration per metre, but not until the	Steel Ships for ionization type detectors and photovoltaic
	smoke density exceeds 2% obscuration per metre,	type detectors.
	when tested according to standards EN 54:2001 and	
	IEC 60092-504. Alternative testing standards may be	
	used as determined by the Administration. Smoke	
	detectors to be installed in other spaces shall operate	
	within sensitivity limits* to the satisfaction of the	
	Administration having regard to the avoidance of	
	detector insensitivity or oversensitivity.	
(Omitted)		

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

- 1. The effective date of the amendments is 30 May 2013.
- 2. Notwithstanding the amendments to the Guidance, the current requirements may apply to ships the keels of which were laid or which were at *a similar stage of construction* before the effective date.
  - (Note) The term "a similar stage of construction" means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 tonnes or 1% of the estimated mass of all structural material, whichever is the less.

### Amendment 1-3

### Part 4 SUBDIVISION AND STABILITY

### **Chapter 2 SUBDIVISION**

Section 2.5 has been added as follows.

### 2.5 Capability after flooding

### 2.5.1 General

The onboard stability computers and shore-based support specified in 2.5.1(2), Part 4 of the Rules are to comply with Annex 4-1 "GUIDELINES ON OPERATIONAL INFORMATION FOR MASTERS OF PASSENGER SHIPS FOR SAFE RETURN TO PORT BY OWN POWER OR UNDER TOW".

# Annex 4-1 GUIDELINES ON OPERATIONAL INFORMATION FOR MASTERS OF PASSENGER SHIPS FOR SAFE RETURN TO PORT BY OWN POWER OR UNDER TOW (MSC.1/Circ.1400)

### 1.1 General

- 1 Stability information provided to the Master should be sourced from an approved stability computer situated on board the vessel or from a shore-based system and should be capable of providing information at any time.
- 2 The output format and units of the information supplied should be consistent with the format and units of the stability booklet in order to facilitate easy comparison.
- Accuracy of programs using hull form with its subdivision models as their basis for stability calculations should have tolerances in accordance with the Guidelines for the approval of stability instruments (*MSC*.1/*Circ*.1229), when compared with the approved stability information; this applies equally to onboard and shore-based systems.

### 1.2 Onboard stability computers

- 1 At least two independent stability computers capable of processing the data and providing the necessary information should be installed.
- 2 Onboard stability computers should have an uninterruptible power supply (UPS) connected to both main and emergency switchboards.
- <u>3</u> The output should be within the tolerances specified in the Guidelines for the approval of stability instruments (*MSC*.1/*Circ*.1229).
- 4 Details of the loading condition of the ship at each departure should be input to the stability computer in order to encourage familiarity with the operation of the system and to save time on data input in the event of a casualty.
- 5 At least two crew members should be competent in the operation of the stability computer and capable of interpretation of the output in order to provide the required information.
- 6 An operation manual should be provided for the stability computer software. The manual should be printed in a language in which the operators are fully conversant.

### 1.3 Shore-based support

- 1 Owners or operators of passenger ships should ensure that their ships have prearranged, prompt access to computerized, shore-based damage stability and residual structural strength calculation programs. The output should be within the tolerances specified in the Guidelines for the approval of stability instruments (*MSC*.1/Circ.1229). Access to the shore-based calculation program should be available 24 hours a day. The computer model of the ship and its subdivision arrangements should be input at the commencement of the contract.
- 2 There should be a contract for the supply of shore-based support at all times during the validity of ship certification.
- 3 Shore-based support should be operational within one hour; whereby operational means the ability to input details of the conditions of the ship as instructed.
- 4 Shore-based support should be manned by adequately qualified persons with regard to stability and ship strength; no less than two qualified persons should be available to be on call at all times.

- 5 At least two independent computers capable of carrying out stability and global strength calculations should be available at all times.
- 6 The ship should be fitted with sufficiently reliable equipment to allow for communication with the supplier of shore-based support for all intended areas of operation.

### 1.4 Minimum stability and additional information requirements

- 1 Taking into account the most recent known loading and flooded condition of the ship and taking into account any measures that may be proposed to improve or affect the survivability of the ship, the following information should be provided:
- (1) GM transverse in any loading condition;
- (2) GZ and range;
- (3) area under the GZ curve;
- (4) maximum and actual values of free surface moments of all tanks and spaces below the bulkhead deck;
- (5) location of flooding level indicators within tanks;
- (6) draughts forward, midships and aft;
- (7) angles of heel and trim;
- (8) the effect of flooding and heel and trim angles on:
  - (a) operation of essential equipment;
  - (b) escape routes and evacuation times; and
  - (c) effective deployment of life saving appliances;
- (9) profile areas of the ship both above and below the waterline, and means to establish their centres, in order to estimate the effects of wind pressure;
- (10) currently applied global bending moment and sheer force;
- (11) fuel consumption data accounting for estimates of increased resistance due to flooding; and
- (12) ship specific particulars relating to the Guidelines for damage control plans and information to the master (*MSC*.1/*Circ*.1245).

# Annex 7-1 INTERPRETATION OF PROVISION OF CHAPTER II-2, SOLAS CONVENTION ON PASSENGER SHIPS

### 1 INTERPRETATION OF PROVISION OF CHAPTER II-2, SOLAS CONVENTION

### 1.1 Interpretation

Interpretation of provision of Chapter II-2, *SOLAS* Convention (Amendments of Res. *MSC*.99(73)) on passenger ships are to be in accordance with **Table 7-1-A1**. Figures and tables referred to in provision and interpretation of provision are to comply with **1.2** respectively.

Table 7-1-A1 has been amended as follows.

Table 7-1-A1 Interpretation of SOLAS II-2

Number	SOLAS	Interpretation
	(Omitte	d)
10.7.1.1	Except as provided for in paragraph 7.2, the cargo spaces of passenger ships of 1,000 gross tonnage and upwards shall be protected by a fixed carbon dioxide or inert gas fire-extinguishing system complying with the provisions of the Fire Safety Systems Code or by a fixed high-expansion foam fire-extinguishing system* which gives equivalent protection.	*: The requirements in 26.2.2, Part R of the Rules for the Survey and Construction of Steel Ships are to be complied with, in addition In cases where systems complying with the FSS Code 6.3.5 are provided, where the area of the space to be protected is greater than the value which is multiplied of the square breath of the ship multiplied by 3, fixed fire-extinguishing arrangements is to be capable of discharging a quantity of foam sufficient to fill the space within 10 minutes.  The tank for foam concentrates is to be treated corrosion-resistant and provided the test cock for checking the foam concentrates.
(Omitted)		

### 2 INTERPRETATION OF PROVISION OF FIRE SAFETY SYSTEMS CODE

### 2.1 Interpretation

Interpretation of provision of the International Code for Fire Safety Systems (Res. MSC.98(73), hereinafter, referred to as *FSS* Code) on passenger ships are to be in accordance with **Table 7-1-B1**. Figures and tables referred to in interpretations of provision are to comply with **2.2**.

Table 7-1-B1 has been amended as follows.

Table 7-1-B1 Interpretations of FSS Code

Number	FSS Code	Interpretations	
Number	(Omittee	Interpretations	
Egg			
<del>FSS</del> <del>6.2.2</del>	Fixed high expansion foam fire extinguishing systems	Reference is to be made to applicable provisions of Chapter 26, Part R of the Rules for the Survey and	
0.2.2		Construction of Steel Ships.	
ECC	Supply ducts for delivering foam*1, air intakes to the	1	
FSS 60001	Supply ducts for delivering foam, air intakes to the	*1: The "supply duets for delivering feam" are to comply with the followings as a standard:	
0.2.2.1	units <sup>23</sup> -shall, in the opinion of the Administration, be	(1) To be of steel having thickness not less than 5mm.	
	such as will provide effective foam production and	(2) Their openings at the bulkhead or deck between the	
	distribution		
	<del>distribution.</del>	foam generator space and the protected space are to be provided with a damper (single or multi bladed)	
		made of stainless steel with a thickness of not less	
		than 2mm. These dampers are to be remotely	
		operated (electrically, pneumatically or hydraulically) from the control position of the foam	
		generator related to them.	
		*2: The foam generators are to comply with R26.2.2-2,	
		Part R of the Cuidance for the Survey and Construction	
		of Steel Ships.	
		*3: The number of foam generating unit is, in principle, to	
		be not less than two in case where the area of the protected	
		space is not less than 400m <sup>2</sup> , and they are to be provided	
		apart from each other.	
FSS	The system shall be capable of discharging through	*: The "largest single area over which oil fuel is liable to	
6.2. <u>4</u> <del>3</del> .1.2	fixed discharge outlets in not more than 5min a	spread" is to be in accordance with <b>R26.4.1-22-3-2</b> , <b>Part R</b>	
_	quantity of foam sufficient to <del>cover to a depth of</del>	of the Guidance for the Survey and Construction of	
	150mm produce an effective foam blanket over the	Steel Ships.	
	largest single area over which oil fuel is liable to	-	
	spread*. The expansion ratio of the foam shall not		
	exceed 12 to 1.		
	(Omitted)		
FSS	Type of sprinkler systems	(Omitted)	
8.2.1.1	The automatic sprinkler systems shall be of the wet		
	pipe type, but small exposed sections* may be of the		
	dry pipe type where, in the opinion of the		
	Administration, this is a necessary precaution. Control		
	stations, where water may cause damage to essential		
	equipment, may be fitted with a dry pipe system or a		
	pre-action system as permitted by regulation		
	<u>II-2/10.6.1.1 of the Convention.</u> Saunas shall be fitted		
	with a dry pipe system, with sprinkler heads having an		
	operating temperature up to 140°C.		
(Omitted)			

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

- 1. The effective date of the amendments is 1 January 2014.
- **2.** Notwithstanding the amendments to the Guidance, the current requirements may apply to ships the keels of which were laid or which were at *a similar stage of construction* before the effective date.

(Note) The term "a similar stage of construction" means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 tonnes or 1% of the estimated mass of all structural material, whichever is the less.

# Japanese Translation Rules for the survey and construction of passenger ships

「旅客船規則」の一部を次のように改正する。

### 改正その1

### 2編 船級検査

### 2章 登録検査

### 2.1 製造中登録検査

### 2.1.7 船上に保持すべき図面等

- -1.(3)を次のように改める。
- -1. 製造中登録検査の完了に際しては、次に掲げる図面等のうち該当するものについて、完成図が船舶に備えられていることを確認する。
  - ((1)及び(2)は省略)
  - (3) 2.1.8-1.に規定する完成図
- -2.(1)を次のように改める。
- -2. 国際航海に従事する船舶にあっては、次に掲げる図面等のうち該当するものを含む船体コンストラクションファイルが船舶に備えられていることを確認する。この場合、前-1.に規定する図面等を二重に保持することを要しない。
  - (1) **2.1.8-1.**に規定する船体構造に関する完成図 ((2)から(9)は省略)
- 2.1.8 を次のように改める。

### 2.1.8 完成図

- -1. 検査申込者は、製造中登録検査の完了に際し、次に掲げる図面について完成図を作成し、本会に提出しなければならない。
  - (1) 一般配置図
  - (2) 中央横断面図,部材寸法図,甲板構造図,外板展開図,横置隔壁図,舵及び舵頭材に関する図面並びに倉口蓋に関する図面
  - (3) ビルジ管及びバラスト管系統図
  - (4) 防火構造図
  - (5) 消火設備配置図
  - (6) 船橋視界に関する図面
- <u>-2.</u> 前**-1.**に掲げる図面のほか, **2.1.7-2.**により船体コンストラクションファイルの備え付けが要求される船舶にあっては、その船舶に備え付けられる船体コンストラクションフ

<u>ァイルに含まれる図面等を本会に提出しなければならない。ただし</u>,前-1.及び 2.1.7-1.に規定する図面等を二重に提出することを要しない。

### 附 則(改正その1)

- 1. この規則は,2013年11月30日(以下,「施行日」という。)から施行する。
- **2.** 施行日前に建造契約が行われた船舶にあっては、この規則による規定にかかわらず、なお従前の例によることができる。

### 改正その2

### 2編 船級検査

### 2章 登録検査

### 2.1 製造中登録検査

### 2.1.7 船上に保持すべき図面等

- -1.を次のように改める。
- -1. 製造中登録検査の完了に際しては、次に掲げる図面等のうち該当するものについて、完成図が船舶に備えられていることを確認する。
  - (1) 次に掲げる手引書等については、本会が承認したもの(又はその写し)
    - (a) ローディングマニュアル (**3 編 1.1.1-4.**)
    - (b) ドア及び内扉に関する操作及び保守マニュアル (3編7.1.1-1.及び7.4.3-4.)
    - (c) 損傷制御図 (4編 3.2.1)
    - (d) 復原性資料 (4編4.3)
    - (e) 水中検査計画書 (2 編 5.1.2)
    - (f) 塗装テクニカルファイル (3編1.1.1-4.)
  - (2) その他の手引書等
    - (a) 積付計算機の取扱説明書 (3編1.1.1-4.)
    - (b) 曳航及び係留設備配置図 (3編1.1.1-4.)
    - (c) 損傷制御のための小冊子(4編3.2.2)
    - (d) 機関の説明書(**5編1.1.1-3.**)
    - (e) 火災制御図,火災安全操作手引書,訓練手引書及び保守計画書(7編5.1.1)
    - (f) ヘリコプタ運航手引書(**7編 5.1.1**)
    - (g) 非常用曳航手順書 (3編1.1.1-4.)
    - (h) 復原性計算機の取扱説明書 (**4 編 2.5.1(2**))
  - (3) 2.1.8 に規定する完成図

### 4編 区画及び復原性

### 2章 区画

### 2.5 浸水後の能力

2.5.1 を次のように改める。

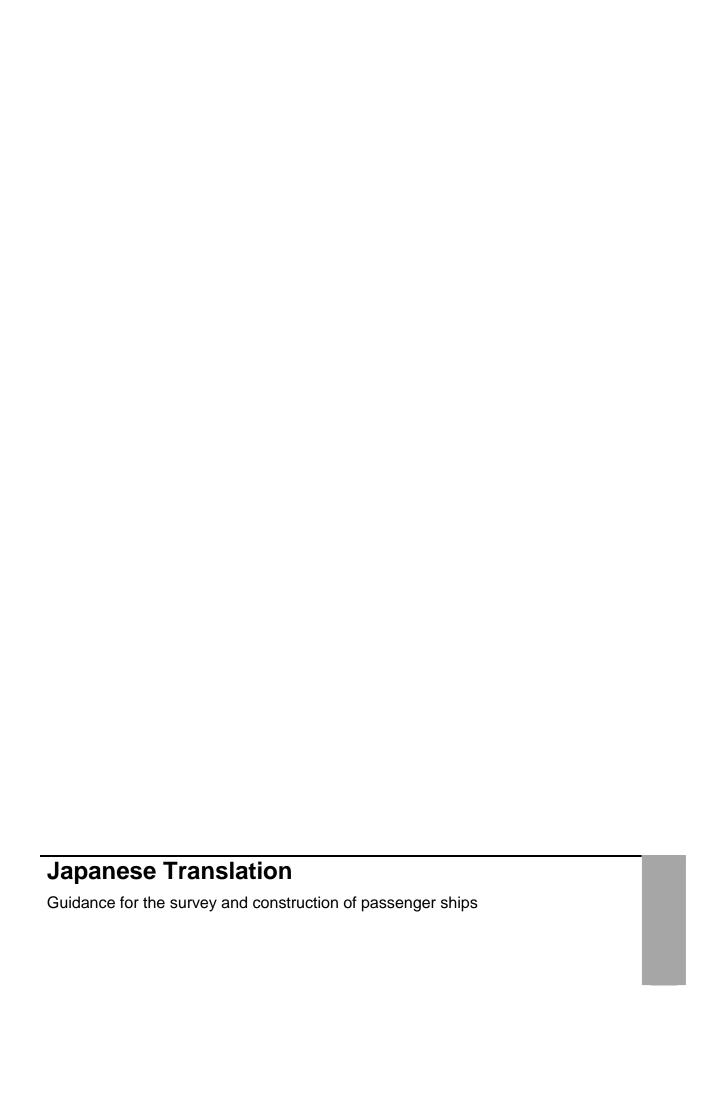
### 2.5.1 一般 (SOLAS II-1 章 8-1 規則)

 $L_f$ が 120m 以上又は 3 つ以上の主垂直区域を持つ船舶<u>について</u>は、 $\frac{\text{いかなる 1 区画に浸水した場合においても、}SOLAS 条約第 II-2 章第 21 規則 4 項に規定されている装置が機能し続けるよう設計しなければならない。$ 

- (1) いかなる 1 区画に浸水した場合においても, *SOLAS* 条約第 II-2 章第 21 規則 4 項に 規定されている装置が機能し続けるよう設計すること。
- (2) 浸水を伴う海難事故が発生した場合において,安全に帰港するために必要な操船上 の情報を船長に提供するために,本会が承認した復原性計算機を船上に備えるか, 又は陸上からの支援措置を講ずること。

### 附 則(改正その2)

- **1.** この規則は, 2014年1月1日(以下, 「施行日」という。) から施行する。
- 2. 施行日前にキールが据え付けられる船舶又は特定の船舶として確認できる建造が開始され、かつ、少なくとも50トン又は全建造材料の見積重量の1%のいずれか少ないものが組み立てられた状態にある船舶については、この規則による規定にかかわらず、なお従前の例によることができる。



「旅客船規則検査要領」の一部を次のように改正する。

### 改正その1

### 6編 電気設備

### 1章 通則

### 1.1 一般

1.1.1を次のとおり改める。

### 1.1.1 適用

規則 6 編 1.1.1-3.の規定により, 鋼船規則 H 編 2.9.11-32.を適用する際には, 次によること。

- (1) **鋼船規則<u>検査要領 <del>H 編 <u>H</u>2.9.11-35.**</u>に定義される「<u>防火境界火災の危険の高い区域</u>」 には、主垂直区域<del>隔壁</del>を含む。</u></del>
- (2) **鋼船規則検査要領 H2.9.11-73.(45)**に掲げる電気機器には、次に掲げるものを含む。
  - (a) 動力駆動の防火戸及び全ての防火戸の状態表示盤に使用される制御及び動力 装置
  - (b) 低位置照明装置(電気式のものに限る)
- (3) 旅客定員が36を超える場合には、鋼船規則検査要領H2.9.11-57.(2)にいう「これら に類似の区画火災の危険の高い区域」に次を加える。
  - (a) <del>可燃性材料を用いた家具又は備品が配置される公共室 (床面積が 50m<sup>2</sup>以上)</del> 火災の危険性が大きい居住区域 (*SOLAS* II-2 章 9.2.2.3.2.2(8)規則)
  - (b) <del>理髪室</del>機関区域及び主調理室<u>(SOLAS II-2 章 9.2.2.3.2.2(12)規則)</u>
  - (c) 可燃性液体を収納するその他の区画(SOLAS II-2 章 9.2.2.3.2.2(14)規則)

### 付録 7-1 SOLAS II-2 章の旅客船関係の条文解釈

### 1 SOLAS II-2 章の条文解釈

### 1.1 条文解釈

表 7-1-A1 の一部を次のように改める。

表 7-1-A1 SOLAS II-2 章の条文解釈

夕玉亚口	GOT 1 G A +	Ø → <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u> </u>
条項番号	SOLAS 条文	条文解釈
	A部総則	
Reg.3	第3規則 定義	
3.1	「居住区域」とは、公共室、通路、洗面所、キャ	*1: <del>「調理器具のない配ぜん室」とは,最大が 5kW 以</del>
	ビン,事務室,病室,映写室,娯楽室,理髪室,	<del>内の電気機器, 例えばコーヒー沸かし器, トースタ,</del>
	調理器具のない配ぜん室*1 その他これらに類する	食器洗い機,電子レンジ及び湯沸かし器等,さらに出
	場所として使用する場所*2をいう。	力が 2kW以下で表面温度が 150℃以下の電気調理プレ
		<del>ートやホットプレートは、配置されていても構わな</del>
		い。ただし上記の電気機器が設けられた食堂は、配ぜ
		ん字とはみなさない。
		「調理器具のない配膳室」には,次の(1)及び(2)の調理
		器具を備えて差し支えない。ただし下記の電気機器が
		設けられた食堂は、配膳室とはみなさない。
		(1) 5kW以下のトースター,電子レンジ, IH 調理器
		等。ただし、コーヒーメーカー、食器洗い器及
		び湯沸し器については、高温表面が暴露してい
		ない場合、その出力によらず「調理器具のない
		配膳室」に備えて差し支えない。
		(2) 2kW以下のもので、かつ、その表面温度が 150℃
		を超えない電気加熱プレート及びホットプレー
		ト
		<u> </u>
		の例としては、旅客室、船員室、美容室、薬局、浴室、
		使所、シャワー室、診療室、手術室、運動室、児童室
		がある。
2.45	「光及に付」とは、細四点、細四四目のもで割ば	
3.45	「業務区域」とは、調理室、調理器具のある配ぜ	*1: ここでいう 調理器具」とは、出力が 5kW を超える電気機器をいい、例えばコーヒー沸かし器。トース
	ん室*1, ロッカー室, 郵便室, 金庫室, 貯蔵品室,	<del>○电ス機能でいり、例えば、「ここのかし部」と「一本</del> ター会界洗い機・電ス1ンパルでは、連ん1、男体・た
	作業室(機関区域の一部を形成するものを除く。)	ア・技術院や機・電子レイン及び傍礁かし結ち、さら に出力が 5kW 川下の電与調理プレートのホットプレ
	その他これらに類する場所*2として使用する場所	ートが配置されていても構わない 5kW を招うる雪気
	及びこれらの場所に至るトランクをいう。	= トか配直されていても構わない。3kW を超える電ス 調理プレートやホットプレートが配置されている区
		WATE TO THE CAUCATOR
		画については、調理室とみなされる。
		「調理器具のある配膳室」には、次の(1)及び(2)の調理
		器具を備えて差し支えない。ただし、5kWを超える電
		気加熱プレートやホットプレートが備えられる区画
		については調理室とみなされる。
		(1) 5kW を超えるトースター,電子レンジ,IH 調理
		器等。ただし、コーヒーメーカー、食器洗い器
		及び湯沸し器については、その出力によらず「調
		理器具のある配膳室」に備えて差し支えない。
		(2) 5kW以下の電気加熱プレート及びホットプレー
		<u> </u>
		*2: 「その他これらに類する場所」の例としては,

	映写室(フィルムロッカー室を含む)、洗濯室、手荷
	物室,食糧庫,冷凍庫,塗料庫,灯具庫,甲板長倉庫,
	廃棄物収納室,用具格納室,乾燥室,工作室がある。

附 則 (改正その1)

1. この達は,2013年5月30日から施行する。

### 改正その2

### 付録 7-1 SOLAS II-2 章の旅客船関係の条文解釈

### 1 SOLAS II-2 章の条文解釈

### 1.1 条文解釈

2000 年 12 月 5 日に第 73 回の海上安全委員会において決議 *MSC*.99(73)として採択された, 1974 年海上人命安全条約 2000 年改正中の第 II-2 章の旅客船に関連した条文の解釈は, **表7-1-A1** によること。なお,条文の解釈中で引用している図表については **1.2** によること。

表 7-1-A1 を次のように改める。

表 7-1-A1 SOLAS II-2 章の条文解釈

条項番号	SOLAS 条文	条文解釈
	(省略)	
<u>Reg.21</u>	海難の基準、安全な帰港及び安全区域	
<u>21.4</u>	<u>安全な帰港*</u>	<u>*MSC.1/Circ.1369</u> に加え、MSC.1/Circ.1437 による。

### 2 火災安全設備コードの条文解釈

### 2.1 条文解釈

2000年12月5日に第73回海上安全委員会において決議 MSC.98(73)として採択された火災 安全設備のための国際規則 (火災安全設備コード) の条文の解釈は, 表 7-1-B1 によること。 なお, 条文の解釈中で引用している図表については, それぞれ 2.2 によること。

表 7-1-B1 を次のように改める。

表 7-1-B1 火災安全設備コードの条文解釈

_	表 /-I-BI	(加ユートの余义解析
条項番号	FSS Code 条文	条文解釈
	(省略)	
FSS9	第9章 固定式火災探知警報装置	
<del>FSS</del>	要求される固定式火災探知警報装置*(手動発信器	*: 要求に適合する探知器の種類は、次に掲げるもの
<del>9.2.1.1</del>	を備えるもの)は、常時直ちに作動することがで	<del>とする。</del>
	きるものでなければならない(ただし、この目的	(1) 定温式スポット型 (1局所の周囲温度が一定の温
	のためにバックアップ用の制御盤は要求しない)。	<del>度以上になったときに作動するもので、1 局所の</del>
	ただし、高温作業中の作業室、荷役中のロールオ	熱容量に基づくものをいう。)
	→・ロールオフ区域等の特定の区画については、	(2) 補償式スポット型 (周囲温度が一定の温度上昇率
	探知器を切り離しても差し支えない。探知器を切	以上になったときに作動するもので、1局所の熱
	り離す手段は、当該作業のために前もって設定さ	容量に基づくものであり、定温式スポット型の機
	れた時間の後に、自動的に装置を通常の監視状態	能を併せ持つものをいう。)
	<u>に復旧させるものでなければならない。当該区画</u>	(3) イオン化式 (周囲の空気が一定の濃度の煙を含む
	は、規則により要求される探知器が切り離されて	<u>に至ったとき作動するものであり、煙によるイオ</u>
	いる間は、乗員又は火災巡視員が配置されていな	→電流の変化に基づくものをいう。)
	ければならない。なお、他のすべての区画の探知	(4) 光電式 (周囲の空気が一定の濃度の煙を含むに至
	器は作動可能な状態でなければならない。	<del>ったとき作動するものであり、煙による光電素子</del>
		<del>の受光量の変化に基づくものをいう。)</del>
		その他として、煙管式の火災探知装置が認められる
		が、次の区域のみに使用が可能である。
		(a) 特殊分類区域以外の車両積載区域(20 規則)
		(b) 旅客船の近づくことの困難な貨物区域 ( <b>7.6</b> 規則)
		(c) ロールオン・ロールオフ区域以外の車両積載区域
		<del>- (20 規則)-</del>
		<del>(d) 危険物を運搬する貨物区域(<b>19</b> 規則)</del>
ESS	固定式火災探知警報装置及び関連機器は、船上で	*: 日本籍船において、「適切な設計」とは次の基準
<del>9.2.1.5</del>	通常起こる供給電力の瞬時変動を含む電圧変動,	<del>に適合しているものをいう。</del>
	電圧過渡現象、周囲温度の変化、振動、湿度、衝	<del>(1) 探知器</del>
	撃及び腐食に耐え得るように適切に設計*されな	(a) 探知器は、JIS22371「塩水噴霧試験方法」に規
	ければならない。船橋内又は船橋の近傍のすべて	定する試験を8時間行ったとき機能に影響をう
	の電気及び電子機器は、IMO が制定した勧告を考	けないものであること。
	虚し、電磁両立性について試験されなければなら	(b) 振動数 10~20Hz, 全振幅 2mm, 繰返し周期 20
	<del>2210</del>	<del>分で水平及び垂直方向にそれぞれ3周期,合計</del>
		<del>2 時間の振動試験を通電状態で行い異常を生じ</del>
		ないものであること。
		(c) (b)の試験で生じた共振点 (共振点がないときに
		<del>あっては、15Hz)において水平及び垂直方向に</del>
		それぞれ 2 時間, 全振幅 2mm で振動試験を通電
		状態で行い異常を生じないものであること。
		(d) -10℃及び 60℃の周囲温度で 24 時間以上放置し
		<del>た後同温度の環境で正常に作動すること。</del>
-	•	·

1		(c) 探知器は、定格電圧の±10%の電圧で正常に作
		動すること。
		<del>(f) (a)から(e)までの試験をこの順序に従って行っ</del>
		<u> </u>
		<del>を有するものであること。</del>
		(2) 警報装置
		(a) JIS F8801「船用電気器具の防水検査通則」に規
		定する第1種放水試験を行い影響を受けないも
		のであること。
		(b) 定格電圧の±10%の電圧及び定格周波数の±
1	//i>m/r/	5%の周波数で正常に作動すること。
	(省略)	
<del>FSS</del>	居住区域内のすべての階段,通路及び脱出経路に	*:「主管庁が認める感応限度内」とはイオン化式及
<del>9.2.3.1.2</del>	<del>要求される煙探知器は, EN 54:2001 及び IEC</del>	び光電式に対して、 <b>鋼船規則検査要領 R 編 R29.2.3-2.</b>
	60092-504 に従って試験された際に、煙濃度の 1m	1252E
	当たりの減光率が 12.5%を超えるまでに作動する	
	が当該減光率が 2%以下では作動しないことが証	
	明されたものでなければならない。ただし、主管	
	庁は他の規格を定めて差し支えない。他の区画に	
	<u>設置される煙探知器は、探知器が鈍感又は過敏に</u>	
	ならないことを考慮して、主管庁が適当と認める	
	<u>感応限度内*において作動するものでなければな</u>	
	<del>\$\$\\</del>	
	(省略)	

### 附 則(改正その2)

- 1. この達は,2013年5月30日(以下,「施行日」という。)から施行する。
- 2. 施行日前にキールが据え付けられる船舶又は特定の船舶として確認できる建造が開始され、かつ、少なくとも50トン又は全建造材料の見積重量の1%のいずれか少ないものが組み立てられた状態にある船舶については、この達による規定にかかわらず、なお従前の例によることができる。

### 改正その3

### 4編 区画及び復原性

### 2章 区画

2.5 として次の1節を加える。

### 2.5 浸水後の能力

### 2.5.1 一般

規則 4 編 2.5.1(2)に規定する復原性計算機又は陸上からの支援措置については、**付録 4-1** 「旅客船において自航又は曳航で安全に帰港するために必要な操船上の情報を船長に提供するための指針」によること。

### <u>付録 4-1</u> 旅客船において自航又は曳航で安全に帰港するために <u>必要な操船上の情報を船長に提供するための指針</u> [MSC.1/Circ.1400]

### 1.1 一般

- 1. 船長に供給される情報は、船舶に搭載された本会が承認した復原性計算機、又は陸上からの支援措置からのものであること。また、その情報は常に供給できるものであること。
- 2. 提供される出力フォーマット及び単位は、容易に比較が行えるよう、復原性資料のフォーマット及び単位と一致しているものとすること。
- 3. 船体形状の区画モデルを用いた計算結果と承認された復原性資料を比較した際の 許容誤差は、MSC.1/Circ.1229「復原性計算機の承認のための指針」によること。また、本 項は復原性計算機、又は陸上からの支援措置について適用する。

### 1.2 船舶に搭載する復原性計算機

- 1. データ処理を行い,必要な情報を提供することのできる独立した復原性計算機を 2 台以上設置すること。
- 2. 復原性計算機は、主配電盤及び非常配電盤の両方に接続された無停電電源装置 (UPS)を備えること。
- 3. 復原性計算機による計算結果の許容誤差は、MSC.1/Circ.1229「復原性計算機の承認のための指針」によること。
- 4. システム操作に慣れるとともに、万一の事故の際の入力時間を短縮するために、各出港時に船舶の積付状態の詳細を復原性計算機に入力すること。
- <u>5.</u> 少なくとも 2 人の乗組員が復原性計算機を使用できること。また,使用者は必要な情報を提供するために,出力データが理解できること。
- 6. 復原性計算機で使用するソフトウェアの取扱説明書を備えること。また、その取扱 説明書は、使用者が完全に理解できる言語が使用されていること。

### 1.3 陸上からの支援措置

- 1. 船舶の船主又は操船者は、事前に損傷時復原性及び残存強度計算プログラムを有する陸上からの支援措置を確保すること。また、出力データの許容誤差は、MSC.1/Circ.1229 「復原性計算機の承認のための指針」によること。計算プログラムは 24 時間使用可能とすること。船舶の計算モデル及び区画配置は契約時に入力すること。
- 2. 陸上支援施設との契約は、旅客船安全証書の有効期間中、常に利用できるものとすること。
- 3. 陸上支援施設は、1時間以内に作動できるものとすること。ここで、作動とは指示通りに船舶の積付状態の詳細が入力できることをいう。
- 4. 陸上支援施設には、復原性及び船体強度に関する十分な知識を有する者を2人以上配置させること。

- 5. 常に使用可能な復原性計算及び全体強度計算を行うことのできる独立した計算機を2台以上設置すること。
- 6. 船舶には、すべての航行予定区域において、陸上支援施設と安定した通信が十分に 行える装置を備えること。

### 1.4 最低復原性要件及び追加要件

- 1. 直近の船舶の積付状態及び浸水状態を考慮するとともに、残存性に影響を及ぼす、 又は残存性を改善するために提案されたすべての対策を考慮して、次の情報を提供するこ と。
  - (1) すべての積付状態における横メタセンタ高さ (GM)
  - (2) GZ 及び復原力範囲
  - (3) 復原力曲線と横軸で囲まれた範囲
  - (4) 隔壁甲板より下方のすべてのタンク及び区画における自由表面モーメントの最大 値及び算出値
  - (5) タンク内部の浸水時液面計測装置の設置場所
  - (6) 船首,船体中央及び船尾部の喫水
  - (7) 傾斜角及びトリム角
  - (8) 次に揚げる項目に対する傾斜角、トリム角及び浸水の影響
    - (a) 重要な機器の操作
    - (b) 避難経路及び避難時間
    - (c) 救命装置の有効的な配置
  - (9) 風圧の影響を算出するための喫水線より上方及び下方における船体の投影面積及 びそれぞれの投影面積の中心を設定する方法
  - (10) 現在の積付状態を考慮した全体曲げモーメント及びせん断力
  - (11) 浸水による抵抗増加の推定を考慮した燃料消費量のデータ
  - (12) MSC.1/Circ.1245「損傷制御図及び船長への情報提供に関する指針」に関する船舶への特別要件

### 付録 7-1 SOLAS II-2 章の旅客船関係の条文解釈

### 1 SOLAS II-2 章の条文解釈

### 1.1 条文解釈

2000 年 12 月 5 日に第 73 回の海上安全委員会において決議 *MSC*.99(73)として採択された, 1974 年海上人命安全条約 2000 年改正中の第 II-2 章の旅客船に関連した条文の解釈は, **表7-1-A1** によること。なお,条文の解釈中で引用している図表については **1.2** によること。

表 7-1-A1 を次のように改める。

表 7-1-A1 SOLAS II-2 章の条文解釈

表 7-1-A1 SOLAS II-2 早の未入牌板			
条項番号	SOLAS 条文	条文解釈	
(省略)			
10.7.1.1	7.2 の規定により場合を除くほか,総トン数 1,000 トン以上の旅客船の貨物区域は、火災安全設備コードの規定に適合する固定式ガス消火装置又はこれと同等の保護を与える <u>固定式高膨脹泡消火装置</u> *によって保護する。	*: <b>網船規則 R 編 26.2.2</b> によるが、FSS コード 6.3.5 <u>の規定に適合する装置を備える場合にあっては、</u> 当該 船舶の幅の 2 乗に 3 を乗じた面積以上の床面積を有す る保護区域に対して泡を放出する場合には,10 分以内 に当該保護区域を満たすために十分な量の泡を放出 することができるものであること。 <del>泡原液タンクは、</del> <del>防食処置が施され、泡原液を点検するための試験介が</del> <del>設けられたものであること。</del>	
(省略)			

### 2 火災安全設備コードの条文解釈

### 2.1 条文解釈

2000年12月5日に第73回海上安全委員会において決議 MSC.98(73)として採択された火災 安全設備のための国際規則 (火災安全設備コード) の条文の解釈は, 表 7-1-B1 によること。 なお, 条文の解釈中で引用している図表については, それぞれ 2.2 によること。

表 7-1-B1 を次のように改める。

表 7-1-B1 火災安全設備コードの条文解釈

表 7-1-B1		
条項番号	FSS Code 条文	条文解釈
(省略)		
FSS6	第6章 固定式泡消火装置	
<del>ESS</del>	固定式高膨張泡消火装置	固定式高膨張泡消火装置については, 鋼船規則 R 編 26
<del>6.2.2</del>		<b>章</b> の適用可能な規定によること。
<del>FSS</del>	<u> 泡の供給ダクト*1、泡発生機*3の空気取入口及び泡</u>	*1:「泡の供給ダクト」は、次の条件を備えているも
6.2.2.2.1	発生ユニット数 <sup>*3</sup> は、泡の効果的な発生及び配分	のを標準とすること。
	を可能にすると主管庁が認めるものでなければな	(1) 少なくとも 5mm の厚さの鋼製のものであるこ
	<del>5/21/0</del>	<del></del>
		(2) 泡発生機を設置する区画と保護される区画と
		<del>の間の隔壁又は甲板の開口には少なくとも</del>
		3mm の厚さの鋼製の閉鎖装置を備えているこ
		と。この閉鎖装置は泡発生装置の操作場所から
		<del>遠隔操作出来ること。</del>
		*2:「泡発生機」は <b>, 鋼船規則検査要領 R 編 R5.2.10-3.</b>
		<del>を満足するものとすること。</del>
		*3:「泡発生ユニットの数」は、泡によって保護され
		<del>る場所の面積が 400m<sup>2</sup>以上の場合は、2 台以上とし、</del>
		相互に離れた位置に設けること。
FSS	この消火装置は、燃料油が広がることのある最大	*:「燃料油が広がることのある最大の単一 <u>面積<mark>区域</mark></u> 」
6.2. <u>4</u> 3.1.2	<u>の単一面積<del>区域</del>*</u> を <del>150mm の厚さで</del> 効果的に覆う	とは, <b>鋼船規則検査要領 R 編 R26</b> . <u>4.1-2.</u> 2 <del>.3-2.</del> による <del>こ</del>
	<u>泡膜を生成する</u> ために十分な量の泡を固定された	₽,
	放出口から 5 分以内に放出することができるもの	
	でなければならない。 <del>泡の膨張率は,12 倍を超え</del>	
	THASAN.	
(省略)		
FSS8	第8章 自動スプリンクラ装置	
	(火災探知及び警報装置を内蔵するもの)	( ) North
FSS	自動スプリンクラ装置は、湿管式のものでなけれ	(省略)
8.2.1.1	ばならないが、主管庁が必要な予防措置がとられ	
	ていると認める場合には、暴露した小系統*を乾燥	
	管式のものとすることができる。 水をかけること	
	により重要な機器に損傷を生じる恐れのある制御	
	場所にあっては,条約の II-2/10.6.1.1 規則により認	
	められるものと同様に、乾燥管式又は予作動式の 装置を備えることができる。サウナには、140 度	
	<u> </u>	
	ひ温度においても機能するスプリングプランタト  とともに、乾燥管式のスプリンクラー装置を取り	
	とともに、乾燥官式のスプリングノー表直を取り   付ける。	
	刊りる。 (省略)	
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		

### 附 則(改正その3)

- 1. この達は、2014年1月1日(以下、「施行日」という。)から施行する。
- 2. 施行日前にキールが据え付けられる船舶又は特定の船舶として確認できる建造が開始され、かつ、少なくとも50トン又は全建造材料の見積重量の1%のいずれか少ないものが組み立てられた状態にある船舶については、この達による規定にかかわらず、なお従前の例によることができる。