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

**RULES**

**Part B**

**Class Surveys**

**2010 AMENDMENT NO.2**

Rule No.83 15th October 2010

Resolved by Technical Committee on 6th July 2010

Approved by Board of Directors on 27th July 2010

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 B CLASS SURVEYS**

Amendment 2-1

**Chapter 3 ANNUAL SURVEYS**

Table B3.1 has been amended as follows.

**Table B3.1 Examination of Plans and Documents**

Items	Examination
1 Loading Manual	<ul style="list-style-type: none"> <li>For ships required to have the manual on board in accordance with the requirements of <b>34.1.1</b> and <b>34.3.1, Part C</b>, and <b>25.1.1, Part CS</b>, confirmation that the manual is kept on board is to be made.</li> </ul>
2 Stability Information Booklet	<ul style="list-style-type: none"> <li>Confirmation as to whether the booklet is kept on board is to be made.</li> </ul>
3 Damage Control Plan, Booklet and Damage Stability Information	<ul style="list-style-type: none"> <li>For ships required to have the damage control plan on board in accordance with the requirement in <b>Chapter 33, Part C</b>, confirmation that the approved plan is exhibited and the booklet containing the information shown in the plan and the damage stability information are kept on board is to be made.</li> </ul>
4 Fire Control Plan	<ul style="list-style-type: none"> <li>Confirmation that the fire control plan is exhibited and properly stored is to be made.</li> </ul>
5 Operating and Maintenance Manual for the door and inner door and notices indicating procedures for closing and securing	<p>For ships required to have the manual and notices on board in accordance with the requirements in <b>Chapter 23, Part C</b>, and <b>Chapter 21, Part CS</b>;</p> <ul style="list-style-type: none"> <li>Confirmation that the manual is kept on board is to be made.</li> <li>Confirmation that the board is exhibited is to be made.</li> </ul>
6 Instruction Manuals for the Inert Gas System	<ul style="list-style-type: none"> <li>For ships required to have the manual on board in accordance with the requirements of <b>4.5.5, Part R</b>, confirmation that the manual is kept on board is to be made.</li> </ul>
7 Towing and Mooring Fitting Arrangement Plan	<ul style="list-style-type: none"> <li>Confirmation that the Towing and Mooring Fitting Arrangement Plan specified in <b>27.2, Part C</b> or <b>23.2, Part CS</b> is kept on board is to be made.</li> </ul>
8 Ship Structure Access Manual	<ul style="list-style-type: none"> <li>For ships required to have the manual on board in accordance with the requirements of <b>35.2.6, Part C</b> or <b>26.2.6, Part CS of the Rules</b>, confirmation that the manual is kept on board and updated as necessary is to be made.</li> </ul>
9 Documents related to the surveys for bulk carriers, oil tankers and ships carrying dangerous chemicals in bulk with integral tanks	<ul style="list-style-type: none"> <li>Confirmation that the documents are kept on board is to be made.</li> </ul>

10 Coating Technical File	<ul style="list-style-type: none"> <li>For ships required to have a Coating Technical File on board in accordance with the requirements of <u>25.2.2, Part C, 22.4.2, Part CS, 1.2.2 Section 5 Chapter 3, Part CSR-B or 2.1.1.2 Section 6, Part CSR-B of the Rules</u>, confirmation that the file is kept on board and that maintenance and repair work are properly recorded in the file is to be made.</li> </ul>
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## Chapter 6 DOCKING SURVEYS

### 6.1 Docking Surveys

#### 6.1.2 In-water Surveys

Sub-paragraph -1 has been amended as follows.

**1** In-water Surveys may be accepted in lieu of Surveys in the dry dock or on the slipway subject to prior approval by the Society. In any case, Surveys in the dry dock or on the slipway to be carried out at the times specified in **(1)** or **(2)** are not to be replaced with In-water Surveys. Except where expressly approved by the Administration, consecutive In-water Surveys should not be accepted in lieu of Surveys in dry dock or on slipway carried out at the times specified in **1.1.3-1(4)**;

- (1)** Docking Surveys carried out at the times specified in **1.1.3-1(4)(a)** for the general dry cargo ships defined in **1.3.1(15)** and for ships with the class notation “Enhanced Survey Programme” (abbreviated to *ESP*)
- (2)** Docking Surveys carried out for ~~bulk carriers, oil tankers and ships carrying dangerous chemicals in bulk~~ ships with the class notation “Enhanced Survey Programme” (abbreviated to *ESP*), all of which are over 15 years of age

Table B6.1 has been amended as follows.

**Table B6.1 Requirements for Docking Surveys**

Items	Examinations
1 Shell plating including keel plate, stem and stern frame	<ul style="list-style-type: none"> <li>Discontinuous structures, structural parts liable to excessive corrosion and openings in the shell are to be examined carefully. Grillage covers are to be removed where deemed necessary by the Surveyor.</li> </ul>
2 Rudder	<ul style="list-style-type: none"> <li>The rudder is to be lifted or removed and visible parts of the rudder, rudder pintles, gudgeons, rudder stocks and couplings and stern frame are to be examined. Where applicable, a pressure test of the rudder according to <b>Table B2.1</b> may be required as deemed necessary by the Surveyor. The rudder bearing clearance is to be measured. The rudder may not require lifting or removal provided the Surveyor is satisfied with the condition of the rudder by measurement of the clearance.</li> </ul>
3 Scupper, overboard discharges and sea inlets including distance pieces below freeboard deck, and valves and cocks on shell plating, sea chest or distance piece	<ul style="list-style-type: none"> <li>The main parts of valves and cocks are to be <del>opened up</del> <del>dismantled</del> and examined. The bolts or studs fastening these mountings to the hull are to be examined. The valves and cocks may not require <del>open-up examination</del> <del>dismantling</del> at the discretion of the Surveyor provided they were <del>opened up</del> <del>dismantled</del> and found to be in good order at the last Docking Survey.</li> <li><u>In cases where consecutive In-water Surveys in lieu of Docking Surveys conducted in dry dock or on slipway may be applied with Administration approval, the open-up examination of valves and cocks required may be exempted at the discretion of the Society provided they were examined (including visual inspection by diver) and found to be in good order.</u></li> </ul>
4 After end of stern bush	<ul style="list-style-type: none"> <li>The wear down of the bearing is to be measured; or the clearance between the propeller shaft or stern tube shaft and the after bearing of the stern tube or the shaft bracket bearing.</li> </ul>
5 Sealing devices for stern tube and shaft bracket bearing	<ul style="list-style-type: none"> <li>The efficiency of the oil gland is to be checked.</li> </ul>
6 Propeller	<ul style="list-style-type: none"> <li>Propellers are to be examined. Where a controllable pitch propeller is fitted, the pitch control device is to be examined without dismantling.</li> </ul>
7 Anchor, anchor chain, ropes, hose pipe, chain locker and cable clenches	<ul style="list-style-type: none"> <li>At the Docking Surveys carried out at the times specified in <b>1.1.3-1(4)(a)</b>, anchors and anchor chains are to be ranged and all chains and chain related equipment are to be verified and externally examined. <u>In cases where In-water Surveys in lieu of Docking Surveys conducted in dry dock or on slipway may be applied at the times specified in <b>1.1.3-1(4)(a)</b>, anchors and anchor chains may not be required to be ranged and examined at the discretion of the Society provided they were examined (including visual inspection by diver) and found to be in good order. In such cases, anchors and anchor chains should be ranged and all chains and chain related equipment should be verified and externally examined at the next Docking Surveys conducted in dry dock or on slipway.</u> At Special Survey No.2 and subsequent Special Surveys, the diameter of the anchor chain is to be measured. If the mean diameter of a link, at its most worn part, is reduced by 12% or more from its required nominal diameter, it is to be renewed.</li> </ul>
8 Tanks and spaces	<ul style="list-style-type: none"> <li>The internal examination, close-up surveys and thickness measurements (if applicable and not already carried out) are to be carried out as stipulated below. <ul style="list-style-type: none"> <li>(i) At Docking Surveys in the dry dock or on the slipway carried out in conjunction with Special Surveys or at the times specified in <b>4.1.1-2.</b>, at least the portions below the light ballast water line of the cargo holds/tanks and water ballast tanks</li> <li>(ii) At Docking Surveys carried out at the times specified in <b>1.1.6-5</b> as far as practicable.</li> </ul> </li> </ul>
9 Installations for In-water Surveys	<ul style="list-style-type: none"> <li>With regard to ships having the approval for conducting In-water Surveys based on the requirements in <b>6.1.2</b>, Surveyors are to confirm that the means and installations specified in <b>6.1.2-3</b> are in good condition.</li> </ul>

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

1. The effective date of the amendments is 15 October 2010.
2. Notwithstanding the amendments to the Rules, the current requirements may apply to the surveys for which the application is submitted to the Society before the effective date.

## Chapter 1 GENERAL

### 1.4 Preparation for Surveys and Miscellaneous

#### 1.4.5 Procedure for Tests, Wear and Tear, etc.

Sub-paragraph -4 has been added as follows.

#### 4 Replacement of fittings, equipments and parts, etc.

In cases where it is necessary to replace any fittings, equipment or parts, etc. used onboard, replacements are to comply with the regulations to be applied during ship construction. However, in cases where new requirements are specified or where deemed necessary by the Society, the Society may require that such replacements comply with any new requirements in effect at the time the relevant replacement work is carried out. In addition, replacements are not to use any materials which contain asbestos.

## Chapter 2 CLASSIFICATION SURVEYS

### 2.1 Classification Survey During Construction

#### 2.1.1 General

Sub-paragraph -2 has been amended as follows.

2 ~~In principle, new~~ The new installation of materials which contain asbestos is to be prohibited.

#### 2.1.3 Submission of Other Plans and Documents

Sub-paragraph -1(13) has been deleted.

1 When it is intended to build a ship to the classification with the Society the following plans and documents are to be submitted, in addition to those required in **2.1.2**:

~~(13) Where materials which contain asbestos are used, documents including the location and other detailed information.~~

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

1. The effective date of the amendments is 1 January 2011.

## Chapter 5 SPECIAL SURVEYS

### 5.4 Special Requirements Ships Carrying Liquefied Gases in Bulk

Table B5.27(1) has been amended as follows.

**Table B5.27(1) Special Requirements for Ships Carrying Liquefied Gases in bulk**

Items	Examinations
1 Cargo tanks	<p>The following examinations are to be carried out <sup>*1</sup>:</p> <p>(a) An internal examination of all cargo tanks</p> <p>(b) A visual examination of insulation <sup>*2</sup> or cargo tank surface (if insulation is not fitted) Special attention is to be paid to chocks, supports, keys and other parts of the tank foundations. Removal of insulation may be required where deemed necessary by the Surveyor.</p> <p>(c) Thickness measurements for cargo tank plate (where deemed necessary by the Surveyor)</p> <p>(d) Non-destructive test for independent tank of Type B in accordance with the approved program This program is to be prepared according to the cargo tank design. Cargo tanks other than independent tanks of Type B are to be examined by non-destructive tests on welded connections of the tank shell, main structural members and other parts liable to bear high stress <sup>*3</sup>. <u>However, non-destructive testing for independent tanks of Type C cannot be dispensed with totally.</u></p> <p>(e) Leak tests of all cargo tanks However, the leak test of membrane tanks, semi-membrane tanks and independent tanks below deck may be omitted, if it is verified by the log book or other proper means that gas detecting devices are in normal condition and no leak is recorded.</p> <p>Where there is any doubt on the integrity of any of the cargo tanks as a result of the examinations (a) through (e) above, the tank is to be tested under the pressures specified below. For independent tanks of Type C: Not less than 1.25 times maximum allowable design pressure (hereinafter referred to as <i>MARVS</i>) of pressure relief valves For independent tanks of Type A and B and integral tanks: Appropriate pressure according to the cargo tank design For independent tanks of Type C, either of the following tests (i) or (ii) is to be carried out at every second Special Survey in addition to examinations (a) through (e).</p> <p>(i) Tests at a pressure 1.25 times <i>MARVS</i>, and thereafter, the non-destructive test stipulated in (d)</p> <p>(ii) Non-destructive test according to the program prepared for the cargo tank design <sup>*4</sup></p>
(Omitting)	

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

1. The effective date of the amendments is 1 July 2011.
2. Notwithstanding the amendments to the Rules, the current requirements may apply to the surveys for which the application is submitted to the Society before the effective date.

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

**Part B**

**Class Surveys**

**GUIDANCE**

**2010 AMENDMENT NO.2**

Notice No.94 15th October 2010

Resolved by Technical Committee on 6th July 2010

Notice No.94 15th October 2010

## 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 B CLASS SURVEYS**

#### Amendment 2-1

### **B3 ANNUAL SURVEYS**

#### **B3.2 Annual Surveys for Hull, Equipment, Fire extinction and Fittings**

##### **B3.2.1 Examination of Plans and Documents**

Sub-paragraph -3 has been added as follows.

**3** The record of maintenance and repair work, which is specified in No.10 of **Table B3.1, Part B of the Rules**, is recommended to be in accordance with the “*Guidelines for maintenance and repair of protective coatings*” (MSC.1/Circ.1330).

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

1. The effective date of the amendments is 15 October 2010.
2. Notwithstanding the amendments to the Guidance, the current requirements may apply to the surveys for which the application is submitted to the Society before the effective date.

## B2 CLASSIFICATION SURVEYS

### B2.1 Classification Survey during Construction

Paragraph B2.1.1 has been deleted.

#### ~~B2.1.1 General~~

~~For the application of the requirements of 2.1.1-2, Part B of the Rules, the installation of materials which contain asbestos may be allowed where deemed necessary by the Society in situations shown below:~~

- ~~(1) Vanes used in rotary vane compressors and rotary vane vacuum pumps~~
- ~~(2) Watertight joints and linings used for the circulation of fluid when, at high temperature in excess of 350°C or pressure in excess of 7 MPa, there is a risk of fire, corrosion or toxicity~~
- ~~(3) Supple and flexible thermal insulation assemblies used for temperatures above 1,000°C~~

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

1. The effective date of the amendments is 1 January 2011.