
RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part B

Class Surveys

RULES

2011 AMENDMENT NO.1

Rule No.27 30th June 2011

Resolved by Technical Committee on 3rd February 2011

Approved by Board of Directors on 25th February 2011

Rule No.27 30th June 2011

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 1-1

Chapter 10 SURVEYS FOR STEEL BARGES

10.6 Special Surveys

Paragraph 10.6.2 has been amended as follows.

10.6.2 Special Survey for Hull, Equipment and Fire Extinction

Special Surveys for hull, equipment and fire extinction are to be in accordance with the relevant requirements specified in 5.2 (except 5.2.3-2(8)) corresponding to the barge’s structure, equipment and fire extinction.

EFFECTIVE DATE AND APPLICATION (Amendment 1-1)

1. The effective date of the amendments is 30 June 2011.

Chapter 4 INTERMEDIATE SURVEYS

4.2 Intermediate Surveys for Hull, Equipment, Fire extinction and Fittings

4.2.4 Internal Examinations of Spaces and Tanks

Table B4.2(2) has been amended as follows.

Table B4.2(2) Internal Examinations of Spaces and Tanks

Items	Examinations
Requirements for Tankers, Ships Carrying Dangerous Chemicals in bulk and Ships Carrying Liquefied Gases in bulk	
1 (Omitted)	• (Omitted)
2 (Omitted)	• (Omitted)
3 Ballast tanks	<p>For Oil Tankers and Ships Carrying Dangerous Chemicals in bulk with integral tanks:</p> <ul style="list-style-type: none"> • <u>For oil tankers and ships carrying dangerous chemicals in bulk with integral tanks over 5 years of age, an internal examination of the tank(s), of which an internal examination is required as a consequence of the last Intermediate Survey or Special Survey, is to be carried out.</u> • For oil tanker and ships carrying dangerous chemicals in bulk over 5 years and up to 10 years of age, an internal examination of representative ballast tanks is to be carried out. For oil tankers except Double hull oil tankers, an internal examination of all ballast tanks is to be carried out. • If such examinations reveal no visible structural defects, the examination may be limited to a verification that the corrosion prevention system remains effective. • Where a poor coating condition, corrosion or other defects are found in a ballast tank or where a protective coating has not been applied from the time of construction, the examination is to be extended to other ballast tanks of the same type. • As a result of internal examinations, ballast tanks with conditions shown in (a) and (b) require an internal examination to be carried out at annual intervals. <ul style="list-style-type: none"> (a) The protective coating is found to be in POOR <u>less than GOOD</u> condition and it is not repaired to the satisfaction of the Surveyor (b) The protective coating has not been applied from the time of construction or only the soft coating has been applied (the examination is to be extended to other ballast tanks of the same type) <p>For Ships Carrying Liquefied Gases in bulk:</p> <ul style="list-style-type: none"> • For ships over 5 years and up to 10 years of age, an internal examination of representative ballast tanks is to be carried out. • For ships over 10 years of age, an internal examination of all ballast tanks is to be carried out. • If such examinations reveal no visible structural defects, the examination may be limited to a verification that the corrosion prevention system remains effective. • For ballast tanks where a protective coating is found in poor condition, and it is not renewed or where a protective coating has not been applied, excluding double bottom tanks, an internal examination is to be carried out at annual intervals. For double bottom ballast tanks with the condition as specified, where considered necessary by the Surveyor, an internal examination is to be carried out at annual intervals.

Note:

- (1) "Representative ballast tanks" means ballast tanks which include, at least, fore and aft peak tanks and two (for double hull oil tankers, three) deep tanks within the cargo length area.

Chapter 5 SPECIAL SURVEYS

5.2 Special Surveys for Hull, Equipment, Fire Extinction and Fittings

5.2.4 Internal Examinations of Spaces and Tanks

Table B5.2 has been amended as follows.

Table B5.2 Additional requirements of internal examinations for tankers and ships carrying dangerous chemicals in Bulk

Special Survey	Tanks and spaces subject to examination	Notes
All Special Surveys	1 All cargo tanks (excluding those in ships carrying liquefied gases in bulk)	<ul style="list-style-type: none"> • For oil tankers, combined cargo/ballast tanks, if any, are to be examined carefully taking account of ballast history and the extent of the corrosion prevention system provided. • For oil tankers, condition of the inner surface of the bottom plating of the tank is to be examined carefully in order to ascertain that there is no excessive pitting of the plating. • For oil tankers, bell mouths of the cargo suction pipes are to be removed and the bottom plating of the tank and bulkheads in that vicinity are to be examined as considered necessary by the Surveyor.
	2 All ballast tanks, and all tanks and spaces adjacent to cargo tanks (pump rooms, cargo compressor rooms, pipe tunnels, cofferdams and void spaces)	<p>For tankers and ships carrying dangerous chemicals in bulk:</p> <ul style="list-style-type: none"> • As a result of internal examinations, ballast tanks with conditions shown in (a) and (b) require an internal examination to be carried out at annual intervals. <ul style="list-style-type: none"> (a) The protective coating is found to be in POOR <u>less than GOOD</u> condition and is not repaired to the satisfaction of the Surveyor. (b) The protective coating has not been applied from the time of construction or the soft coating has been applied (the examination is to be extended to other ballast tanks of the same type) • An internal examination of the pump room is to be carried out carefully paying attention to the sealing arrangements of all penetrations of bulkheads, ventilating arrangements, foundations and gland seals of pumps. <p>For ships carrying liquefied gases in bulk:</p> <ul style="list-style-type: none"> • For ballast tanks, excluding double bottom tanks, where a protective coating is found in poor condition, and it is not renewed or where a protective coating has not been applied from the time of construction, an internal examination is to be carried out at annual intervals. For ballast double bottom tanks with the condition as specified, where considered necessary by the Surveyor, an internal examination is to be carried out at annual intervals. • Ballast tanks converted to void spaces are to be examined applying the provisions for ballast tanks correspondingly.

EFFECTIVE DATE AND APPLICATION (Amendment 1-2)

1. The effective date of the amendments is 1 July 2011.
2. Notwithstanding the amendments to the Rules, the current requirements may apply to any Annual Survey which comes before the Special Survey or Intermediate Survey, whichever comes first, on or after the effective date.

Chapter 5 SPECIAL SURVEYS

5.2 Special Surveys for Hull, Equipment, Fire Extinction and Fittings

5.2.4 Internal Examinations of Spaces and Tanks

Table B5.1 has been amended as follows.

Table B5.1 Internal examinations of tanks and spaces

Special Survey	Tanks and spaces subject to examination	Note
Special Survey for ships up to 5 years of age (Special Survey No.1)	<ul style="list-style-type: none"> • Cargo holds • Cofferdams • Ballast tanks • Cargo tanks (other than those of tankers, ships carrying liquefied gases in bulk and ships carrying dangerous chemicals in bulk) • Peak tanks • Machinery spaces and other spaces 	<ul style="list-style-type: none"> • Ballast tanks (excluding double bottom tanks) where the protective coating is found in poor condition and it is not renewed or where a protective coating has not been applied, internal examinations are to be carried out at annual intervals. For double bottom ballast tanks in this condition, internal examinations are to be carried out at annual intervals where considered necessary by the Surveyor. • <u>For holds insulated for the carriage of refrigerated cargo, the limber boards and the cover plates are to be removed and an examination of the inside is to be carried out. In addition, an examination behind the insulation is to be carried out at representative locations. The examination may be limited to verification that the protective coating remains effective and that there are no visible structural defects. Where POOR coating condition is found, the examination is to be extended as deemed necessary by the Surveyor.</u>
Special Survey for ships over 5 years and up to 10 years of age (Special Survey No.2)	(Omitted)	(Omitted)
Special Survey for ships over 10 years and up to 15 years of age (Special Survey No.3)	(Omitted)	(Omitted)
Special Survey for ships over 15 years of age (Special Survey No.4 and subsequent Special Surveys)	(Omitted)	(Omitted)

Table B5.6-1(2) has been amended as follows.

Table B5.6-1(2) Requirements of Close-up Surveys for Bulk Carriers
(excluding Ore Carriers)

Special Survey	Structural members subject to Close-up Survey
Requirements for Double Skin Bulk Carriers (excluding Ore Carriers)	
Special Survey for ships up to 5 years of age (Special Survey No.1)	(Omitted)
Special Survey for ships over 5 years and up to 10 years of age (Special Survey No.2)	<ol style="list-style-type: none"> 1. One transverse bulkhead in each cargo hold and lower part of remaining transverse bulkheads (including stiffeners and girders) (C) 2. About half of transverse webs with associated plating and longitudinals in a representative ballast tank of each type (topside, bilge hopper or side tank) (B) 3. One transverse web with associated plating and longitudinals in each of the remaining ballast tanks (B) 4. Both forward and aft transverse bulkheads (including stiffeners and girders) in a transverse section including topside, bilge hopper and double side ballast tanks (B) 5. A sufficient number (at least 1/4 of total number) of stiffeners on side shell or and longitudinal bulkhead at forward, middle, and aft parts on both sides of the foremost double side tanks (A) 6. All deck plating and under deck structure inside the line of hatch openings between cargo hold hatches 7. All piping arrangements in cargo holds. If the surveyor considers it necessary, airtight tests are to be carried out.
Special Survey for ships over 10 years and up to 15 years of age (Special Survey No.3)	<ol style="list-style-type: none"> 1. All transverse bulkheads (including stiffeners and girders) in all cargo holds (C) 2. All transverse webs with associated plating and longitudinals and all transverse bulkheads (including stiffeners and girders) in each ballast tank (B) 3. A sufficient number (at least 1/4 of total number) of stiffeners on side shell or and longitudinal bulkhead at forward, middle, and aft parts on both sides of all double side tanks (A) 4. Structural members specified in 6. and 7. of Special Survey No.2 above
Special Survey for ships over 15 years of age (Special Survey No.4 and subsequent Special Surveys)	<ol style="list-style-type: none"> 1. All stiffeners on side shell or and longitudinal bulkhead in all double side tanks (A) 2. Structural members specified in 1., 2. and 4. of Special Survey No.3 above

Notes:

(Omitted)

Table B5.10-1(2) has been amended as follows.

Table B5.10-1(2) Requirements of Thickness Measurements for Oil Tankers and Ships Carrying Dangerous Chemicals in Bulk

Special Surveys	Structural members subject to thickness measurement
Special Survey for ships over 15 years of age (Special Survey No.4 and subsequent Special Surveys)	1. to 7. (Omitted) 8. All keel plates, full length, and an appropriate number of bottom plates in way of cofferdams, machinery space, and aft end of tanks outside of the cargo area 9. to 11. (Omitted)

Table B5.10-2 has been amended as follows.

Table B5.10-2 Requirements of Thickness Measurements for Ships Carrying Liquefied Gases in Bulk

Special Surveys	Structural members and so forth subject to thickness measurement
Special Survey for ships up to 5 years of age (Special Survey No.1)	(Omitted)
Special Survey for ships over 5 years and up to 10 years of age (Special Survey No.2)	(Omitted)
Special Survey for ships over 10 years and up to 15 years of age (Special Survey No.3)	(Omitted)
Special Survey for ships over 15 years of age (Special Survey No.4 and subsequent Special Surveys)	1. to 7. (Omitted) 8. All keel plates, full length, and an appropriate number of bottom plates in way of cofferdams, machinery space, and aft end of tanks outside of the cargo area 9. (Omitted)

EFFECTIVE DATE AND APPLICATION (Amendment 1-3)

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.

Chapter 1 GENERAL

1.1 Surveys

Paragraph 1.1.1 has been amended as follows.

1.1.1 Classification Surveys

1 All ships (except steel barges, submersibles, mobile offshore drilling units, ~~work boats~~, etc., ~~and~~ floating offshore facilities for crude oil/petroleum gas production, storage and offloading, and work-ships) intended to be classed with the Society are to be subjected to Classification Surveys by the Surveyor in accordance with the requirements of **Chapter 2**. Classification Surveys of steel barges, submersibles, mobile offshore drilling units, ~~work boats~~, etc., floating offshore facilities for crude oil/petroleum gas production, storage and offloading, as well as work-ships are to be in accordance with the requirements of **Chapter 10, 11, 12** ~~and~~, **14 and 15** respectively.

2 Classification Surveys ~~consist~~ ~~are composed~~ of the following Surveys.

- (1) Classification Survey during Construction
- (2) Classification Survey of Ships Not Built ~~u~~Under Survey

1.1.2 Class Maintenance Surveys

Sub-paragraph -1 has been amended as follows.

1 Ships (except steel barges, submersibles, mobile offshore drilling units, ~~work boats~~, etc., and floating offshore facilities for crude oil/petroleum gas production, storage and offloading classed with the Society are to be subjected to Class Maintenance Surveys by the Surveyor in accordance with the requirements of **Chapter 3** through **Chapter 9** of this Part. Class Maintenance Surveys of steel barges, submersibles, mobile offshore drilling units, ~~work boats~~, etc., floating offshore facilities for crude oil/petroleum gas production, storage and offloading, as well as work-ships are to be in accordance with the requirements of **Chapter 10, 11, 12** ~~and~~, **14 and 15** respectively. In addition, in cases where any modification of ship registration details is needed, the ship is to comply with **2.5** in addition to the above requirements.

(Omitted)

Title of Chapter 12 has been amended as follows.

Chapter 12 SURVEYS FOR MOBILE OFFSHORE DRILLING UNITS ~~WORK SHIPS,~~ AND SPECIAL PURPOSE BARGES

12.1 General

12.1.1 Application

Sub-paragraph -1 has been amended as follows.

1 Class Surveys of the mobile offshore drilling units, ~~work units,~~ storage units and barges of special purpose specified in **Part P** (hereinafter referred to as “the units” in this Chapter), are to be in accordance with the requirements of this Chapter, notwithstanding the requirements specified in other chapters of this Part.

(Omitted)

12.2 Classification Survey during Construction

Paragraph 12.2.2 has been amended as follows.

12.2.2 Submission of Plans and Documents

1 Submission of Plans and Documents for Approval

With respect to~~In~~ the Classification Survey ~~and~~During ~~and~~Construction, the following plans and documents are to be submitted to the Society for approval before the work is commenced.

(Omitted)

2 Submission of Plans and Documents for Reference

With respect to~~In~~ the Classification Survey ~~and~~During ~~and~~Construction, the following plans and documents are to be submitted for reference in addition to the plans and documents specified in

-1.

(Omitted)

~~**3** Notwithstanding the requirements given in **-1** and **-2**, when it is intended to build the work ship specified in **1.2.3(2)**, **Part P** for classification by the Society, the following plans and documents are to be submitted to the Society for approval before work is commenced in addition to relevant requirements specified in **2.1.2** and **2.1.3**.~~

~~(1) Plans for installations and machinery for the intended work (hereinafter referred to as “work-related installations”)~~

~~(2) Plans for the supporting structures of work-related installations.~~

~~**43** Notwithstanding the requirements in **-1** ~~to~~ ~~**-3**~~ and **-2**, part of the plans and documents specified in **-1** ~~to~~ ~~**-3**~~ and **-2** may be omitted in accordance with the provisions specified otherwise by the Society, in cases where the unit or machinery is to be built at the same place of manufacture based on plans and documents which have already been approved.~~

12.2.3 Presence of Surveyor

Sub-paragraph -1 has been amended as follows.

1 ~~During~~^{In} the Classification Survey, the presence of the Surveyor is required at the following stages of the work in relation to hull construction, equipment, machinery and electrical installations.

- (1) When specified by the requirements of **2.1.4-1** and **2.1.4-2** or when conducting the tests, examinations or inspections specified in **12.2.4**, and **12.2.5**
- (2) For machinery and electrical installations, when the tests, examinations or inspections specified in **11.1.2** or **12.1.2, Part P** are carried out
- (3) For column-stabilized units, when the draught scales are fitted
- (4) For large storage units, when the operation test of rupture hatches is carried out at a pressure below the design operational pressure
- (5) For units requiring the mooring system specified in **Chapter 10, Part P**, when that system is installed on the unit
- (6) For units with a dynamic positioning system, when components of the dynamic positioning system are installed on the units and tests are carried out in accordance with the testing procedure
- ~~(7) For work ships, when performance tests are carried out on work-related installations.~~

2 The requirements specified in **-1** may be modified with regard to the actual status of facilities, technical abilities and quality control at the place of manufacture, except in the case of sea trials and stability experiments.

12.3 Annual Surveys

Paragraph 12.3.2 has been amended as follows.

12.3.2 Annual Surveys for Hulls, Equipment, Fire Extinguishing Systems, and Fittings

1 It is to be verified that the following documents and booklets ~~are~~^{have been} kept on board and ~~are~~ readily available.

- (1) The approved stability booklet
- (2) Loading manual, for units which require one according to the requirements in **7.6.1-2, Part P**
- (3) Operation booklet defined in **1.2.25, Part P**
- (4) Testing procedure for dynamic positioning systems, for units with a dynamic positioning system
- (5) Relevant items listed **Table B3.1** corresponding to the unit's hull structure and purpose

2 Annual Surveys for hulls, equipment, fire extinguishing systems and fittings

At Annual Surveys, the general condition of the following are to be examined as far as practicable, in addition to the relevant survey items specified in **3.2.2** through **3.2.7** corresponding to hull structure, equipment, purpose, etc.

- (1) Mooring systems specified in **Chapter 10, Part P**, their fittings and adjacent hull construction
 - (2) For mobile offshore drilling units, the exposed parts of the derrick, derrick substructure including supporting structure, and anchor racks
 - ~~(3) Work-related installations and their supporting structures~~
- (Omitted)

Paragraph 12.3.3 has been amended as follows.

12.3.3 Annual Surveys for Machinery and Electrical Installations

At Annual Surveys for machinery and electrical installations, general examinations of relevant machinery and electrical installations specified in **3.3** are to be carried out in addition to the following surveys.

- (1) General conditions of electrical installations in hazardous areas are to be examined. For units of ten *years* of age and over, insulation resistance of these installations is to be measured. ~~This~~ measurement, however, may be dispensed with where proper measurement records have been kept on board and are found to be satisfactory by the Surveyor.
- (2) For self-elevating units, the condition of the jacking or elevating systems and the leg guides is to be examined.
- (3) For units with a dynamic positioning system, a general examination of its components and a performance test in accordance with the testing procedure for dynamic positioning systems is to be carried out.
- ~~(4) General examinations of the work-related installations are to be carried out. In case where deemed necessary by the Surveyor, performance tests of work-related installations may be required.~~

Chapter 15 has been added as follows.

Chapter 15 SURVEYS FOR WORK-SHIPS

15.1 General

15.1.1 Application

The Class Surveys of the work-ships specified in **Part O** (hereinafter referred to as “ships” in this Chapter), are to be in accordance with the requirements of this Chapter, notwithstanding the requirements specified in other chapters of this Part.

15.1.2 General Requirements on Surveys

The general requirements of Classification Surveys, Class Maintenance Surveys, and other relevant surveys are to follow the requirements specified in **Chapter 1**. At Classification Surveys and Class Maintenance Surveys, it is to be verified that ships are in good condition through examinations, tests and investigations carried out to the satisfaction of the Surveyor.

15.2 Classification Surveys during Construction

15.2.1 General

1 In Classification Surveys During Construction, surveys are to be carried out on the hull construction, equipment, machinery, fire protection, means of escape, fire extinguishing systems, electrical installations, stability and load lines in order to ascertain that they meet the relevant requirements of **Part O**.

2 In Classification Surveys, surveys on materials, hull construction, equipment, machinery, etc. are to be carried out in accordance with the requirements specified in **15.2.2** to **15.2.3** in addition to the relevant requirements specified in **Chapter 2**.

15.2.2 Submission of Plans and Documents

1 In the Classification Survey During Construction, the followings plans and documents in addition to those plans and documents specified in relevant requirements in **2.1.2** are to be submitted to the Society for approval before the work is commenced. The plans and documents may be submitted for examination by the Society prior to making an application for the classification of the ship as stipulated otherwise by the Society.

(1) Plans for the installations and machinery for the intended work (hereinafter referred to as “work-related installations”)

(2) Plans for the supporting structures of work-related installations

(3) The following plans and documents for dynamic positioning systems in cases where such a system is installed on the ship

(a) Arrangements and construction of the dynamic positioning system

(b) Construction and control diagrams of the dynamic positioning system

2 In the Classification Survey During Construction, the following plans and documents in addition to those plans and documents specified in relevant requirements in **-1** above and **2.1.3** are to be submitted for reference.

(1) Testing procedure of the dynamic positioning system (including the test items of Periodical Surveys, test procedures, criteria, etc.) in cases where such a system is installed on the ships

3 Submission of other plans and documents not specified in **-1** and **-2** may be required where

deemed necessary by the Society

4 Notwithstanding -1 and -2, part of the plans and documents specified in -1 and -2 may be omitted in accordance with requirements stipulated otherwise by the Society, in cases where a ship or machinery is built at the same place of manufacture based on plans and documents which have already been approved.

15.2.3 Presence of Surveyor

1 During the Classification Surveys, with respect to the stages of work related to hull construction, equipment, machinery and electrical installations, the presence of a Surveyor is required at the following stages in addition to those specified in 2.1.4:

- (1) When performance tests are carried out on work-related installations
- (2) For ships with a dynamic positioning system, when components of the dynamic positioning system are installed on the ship and tests are carried out in accordance with the testing procedure

2 The requirements specified in -1 may be modified having regard to the actual status of the facilities, technical abilities and quality control of the place of manufacture, except in the case of sea trials.

3 For the tests specified in -1, the applicant is to prepare test plans for review by the Society prior to testing. Test records and/or measurement records are to be submitted to the Society as required.

15.3 Annual Surveys

15.3.1 General

1 Annual Surveys are to be according to the requirements in this 15.3 in addition to relevant requirements in Chapter 3.

2 Surveys equivalent to Special Surveys may be required when considered necessary by the Society, based on the service and repair history of the ship or damage history of similar ship types or ships with similar tanks and spaces.

3 At the Annual Surveys for work-ships which are designed to perform more than a single purpose, surveys are to be carried out in accordance with the relevant requirements in this Chapter, in consideration of the ship's equipment, structural configuration and past operational experience.

15.3.2 Annual Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings

1 It is to be verified that the following documents and booklets have been kept on board and are readily available.

- (1) Relevant items listed Table B3.1 corresponding to the ship's hull structure and purpose
- (2) Testing procedure for dynamic positioning systems, for ships with a dynamic positioning system

2 Annual Surveys for Hulls, Equipment, Fire Extinguishing Systems and Fittings

At Annual Surveys, the general condition of the following is to be examined, in addition to the relevant survey items specified in 3.2.2 through 3.2.7 corresponding to hull structure, equipment, purpose, etc.

- (1) Work-related installations and their supporting structures

15.3.3 Annual Surveys for Machinery and Electrical Installations

At Annual Surveys for machinery and electrical installations, general examinations of the relevant machinery and electrical installations specified in 3.3 are to be carried out in addition to the following surveys:

- (1) General examinations of work-related installations are to be carried out. In cases where deemed

necessary by the Surveyor, performance tests of work-related installations may be required.

- (2) For ships with a dynamic positioning system, a general examination of its components and a performance test in accordance with the testing procedure for dynamic positioning systems is to be carried out.
- (3) General conditions of the electrical installations in hazardous areas are to be examined. For ships of ten years of age and over, insulation resistance of these installations is to be measured. This measurement, however, may be dispensed with where proper measurement records are kept on board and are found to be satisfactory by the Surveyor.

15.4 Intermediate Surveys

15.4.1 General

1 Intermediate Surveys are to be according to the requirements in this 15.4 in addition to relevant requirements in Chapter 4.

2 Surveys equivalent to Special Surveys may be required when considered necessary by the Society, based on the service and repair history of the ship or damage history of similar ship types or ships with similar tanks and spaces.

3 At the Intermediate Surveys for work-ships which are designed to perform more than a single purpose, surveys are to be carried out in accordance with the relevant requirements in this Chapter, in consideration of the ship's equipment, structural configuration and past operational experience.

15.4.2 Intermediate Surveys for Hull, Equipment, Fire Extinction and Fittings

1 Examination of Plans and Documents

At Intermediate Surveys, the management conditions of plans and documents listed in 15.3.2-1 is to be examined.

2 Intermediate Surveys for Hulls, Equipment, Fire Extinguishing Systems, and Fittings

At Intermediate Surveys, the relevant survey items specified in 4.2.2 through 4.2.7 corresponding to the ship's structure, equipment, etc. are to be examined. In addition, a general examination of hull, equipment, fire extinguishing systems and fittings specified in 15.3.2-2 is to be carried out.

15.4.3 Intermediate Surveys for Machinery and Electrical Installations

At Intermediate Surveys, relevant survey items for the machinery and electrical installations specified in 4.3 and the survey items specified in 15.3.3 are to be examined according to type.

15.5 Special Surveys

15.5.1 General

1 Special Surveys are to be according to the requirements in this 15.5 in addition to relevant requirements in Chapter 5.

2 Commencement and completion of Special Surveys are to follow the requirements specified in 5.1.1.

3 At the Special Surveys for work-ships which are designed to perform more than a single purpose, surveys are to be carried out in accordance with the relevant requirements in this Chapter, in consideration of the ship's equipment, structural configuration and past operational experience.

15.5.2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems and Fittings

1 Examination of Plans and Documents

At Intermediate Surveys, the management conditions of plans and documents listed in 15.3.2-1 is to be examined.

2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings

At Special surveys, the following survey items are to be examined, in addition to the relevant survey items specified in 5.2.2 through 5.2.7 corresponding to the ship's structure, equipment, etc. The hull, equipment, fire extinguishing systems and fittings specified in 15.4.2-2 are to be examined thoroughly.

(1) For ships with a dynamic positioning system, a general examination of its components and fittings and an operating test is to be carried out in accordance with the test procedure for dynamic positioning systems.

15.5.3 Special Surveys for Machinery and Electrical Installations

At Special Survey, relevant survey items for the machinery and electrical installations specified in 5.3 and the survey items specified in 15.3.3 are to be examined according to type.

15.6 Docking Surveys

15.6.1 General

1 Docking Surveys are to be according to the requirements in this 15.6 in addition to relevant requirements in Chapter 6.

2 For ships with a dynamic positioning system, a general examination of installations and its fittings and a performance test are to be carried out in accordance with the testing procedure for dynamic positioning systems.

15.7 Boiler and Thermal Oil Heater Surveys

15.7.1 General

Boiler and thermal oil heater surveys are to be carried out in accordance with Chapter 7.

15.8 Propeller Shafts and Stern Tube Shaft Surveys

15.8.1 General

For ships with main propulsion machinery, Propeller Shafts and Stern Tube Shaft Surveys are to be carried out in accordance with Chapter 8.

15.9 Planed Machinery Surveys

15.9.1 General

Planned Machinery Surveys are to be carried out in accordance with Chapter 9.

EFFECTIVE DATE AND APPLICATION (Amendment 1-4)

1. The effective date of the amendments is 30 December 2011.
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.
3. Notwithstanding the provision of preceding **2.**, the amendments to the Rules may apply to ships for which the application is submitted to the Society before the effective date upon request by the owner.

Chapter 3 ANNUAL SURVEYS

3.2 Annual Surveys for Hull, Equipment, Fire Extinction and Fittings

3.2.2 General Examination

Table B3.2 has been amended as follows.

Table B3.2 General Examination

Items	Examination
1 Shell plating 2 Weather deck plating	• Confirmation that areas visible above the load waterline are in good condition.
3 Openings on deck and outside of the hull	• Confirmation that the following are in good condition: coamings and closing appliances of hatchways and flush deck openings on the exposed deck and within unenclosed superstructures; gangway ports, cargo ports and coal ports; and side scuttles below the freeboard or superstructure deck.
4 Casings of engine room	• Confirmation that the following are in good condition: exposed engine casings and their openings; and skylights of the engine room and boiler room and their closing appliances.
5 Ventilators	• Confirmation that coamings and closing appliances of ventilators to spaces below the freeboard deck or within enclosed superstructures are in good condition.
6 Air pipes	• Confirmation that the air pipes on weather deck and their closing appliances are in good condition.
7 Watertight bulkhead and superstructure end bulkhead	• Confirmation that watertight doors, penetrations and stop valves on watertight bulkheads, and closing appliances of openings in superstructure end bulkheads are in good condition.
8 Load line marks	• Confirmation that deck line and load line markings are appropriate.
9 Bulwark	• Confirmation that bulwarks and the shutters of its freeing ports; and hinges and guard rails are in good condition.
10 Means of access	• Confirmation that permanent gangways or other means of access are in good condition.
11 Scuppers, inlets, other discharge pipes and valves	• Confirmation that all areas which can be examined are in good condition.
12 Securing arrangement for on-deck timber	• Confirmation that securing arrangement for on-deck timber including eye plates, lashing wires, etc. is in good condition regardless of timber freeboard markings.
13 Anchoring and mooring arrangement	• Confirmation that the anchoring and mooring arrangements including their accessories are in good condition as far as can be seen.
14 Fire extinguishing arrangement	• Confirmation that the fire extinguishing arrangement is in good condition and the fixed fire extinguishing system, semi-portable and portable fire extinguishers, and fireman's outfits and emergency fire pumps are maintained in good order.
15 Fire protection arrangement and means of escape	• Confirmation that no alteration has been made to these arrangements since the last survey.
16 Sails and their accessories	• Confirmation that sails and their accessories are in good condition. They are to be in place and ready for unfolding at the time of examination.
17 Towing and mooring fittings	• Confirmation that the mark of Safe Working Load (SWL) on towing and mooring fittings of ships required to have this mark as specified in 27.2.2 or 27.2.3, Part C or 23.2.2 or 23.2.3, Part CS is clearly visible and these fittings are in good condition.
18 Emergency towing arrangement	• Confirmation that the emergency towing arrangement of ships required to have one in accordance with the provisions of 27.3, Part C, is in good condition.
19 Loading computer	• Confirmation that the computer of ships required to have one in accordance with the provisions of 34.1.1 and 34.3.2, Part C is maintained in good order.

20 Ship Identification Number	<ul style="list-style-type: none"> Confirmation that the markings of the ship's identification number for ships required to be so marked are in good condition.
21 Means of embarkation and disembarkation	<ul style="list-style-type: none"> Confirmation that the means of embarkation and disembarkation are in good condition.
Additional Requirement for Tankers, Ships Carrying Dangerous Chemicals in bulk and Ships Carrying Liquefied Gases in bulk	
22 Piping	<ul style="list-style-type: none"> Confirmation that cargo oil, fuel oil, ballast, vent pipes including vent masts and headers, inert gas pipes and all other piping in cargo pump room, cargo compressor rooms and on weather decks are in good condition.
Additional Requirement for Bulk Carriers over 10 years of age	
23 Piping in the cargo holds	<ul style="list-style-type: none"> Confirmation that all piping and penetrations in cargo holds, including overboard piping, are in good condition.
Additional Requirement for General Dry Cargo Ships of not less than 500 gross tonnage and over 15 years of age	
24 Piping in the cargo holds	<ul style="list-style-type: none"> Confirmation that all piping and penetrations in cargo holds, including overboard piping, are in good condition.

Note:

Examination of suspect areas identified at previous surveys is to be carried out.

EFFECTIVE DATE AND APPLICATION (Amendment 1-5)

1. The effective date of the amendments is 30 December 2011.
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.

Chapter 2 CLASSIFICATION SURVEYS

2.1 Classification Survey During Construction

2.1.6 Documents to be Maintained on Board

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

1 At the completion of a classification survey, the Surveyor confirms that the finished versions of the following applicable drawings, plans, manuals, lists, etc., are on board.

(Omitted)

(2) Other documents

- (a) Towing and mooring fitting arrangement plans (**27.2.4, Part C** or **23.2.4, Part CS**)
- (b) Operation manuals for the emergency towing arrangement (**27.3, Part C**)
- (c) Booklets for damage control and Damage Stability Information (**33.3.2, Part C** and **33.3.3, Part C**)
- (d) Operation manuals for the loading computer (**34.1.3-3, Part C** or **Chapter 25, Part CS**)
- (e) Plans for means of access (**35.1.5, Part C** or **26.1.5, Part CS**)
- (f) Operation manuals for the stability computer (**1.2.2, Part U**)
- (g) Operating and maintenance instructions for ship machinery and equipment (**1.3.9, Part D**)
- (h) Manuals for the water level detection and alarm systems (**13.8.5-4** or **13.8.6-3, Part D**)
- (i) Maintenance records of batteries (**1.1.8, Part H**)
- (j) Instruction manuals for the cargo tank venting systems (**4.5.3, Part R**)
- (k) Fire Control Plans, Fire Safety Operational Booklets, Training manuals and Maintenance plans (**Chapters 14, 15** and **16, Part R**)
- (l) Operation manuals for the helicopter facilities (**18.8, Part R**)
- (m) Instruction manuals for the inert gas systems (**35.2.11, Part R**)
- (n) A copy of the *IGC* Code or national regulations incorporating the provisions of the *IGC* Code (**18.2.2-3, Part N**)
- (o) A copy of the *IBC* Code or national regulations incorporating the provisions of the *IBC* Code (**16.2.3-1, Part S**)
- ~~(p) Operating Booklets (**1.1.7, Part P**)~~
- (~~q~~) Emergency Towing Procedures (**27.4, Part C** or **23.3, Part CS**)

Chapter 12 SURVEYS FOR MOBILE OFFSHORE DRILLING UNITS, WORK SHIPS, AND SPECIAL PURPOSE BARGES

12.2 Classification Survey during Construction

12.2.1 General

Sub-paragraph -2 has been amended as follows.

1 In the Classification Survey during construction, surveys are to be carried out on hull construction, equipment, machinery, construction of fire protection, means of escape, fire extinguishing systems, electrical installations, stability and load lines in order to ascertain that they meet the relevant requirements of **Part P**.

2 In the Classification Survey, surveys on materials, hull construction, equipment, machinery, etc. are to be carried out in accordance with the requirements specified in **12.2.2** to **12.2.67** in addition to the relevant requirements specified in **Chapter 2**.

12.2.2 Submission of Plans and Documents

Sub-paragraph -2(17) has been amended as follows.

(Omitted)

2 Submission of Plans and Documents for Reference

In the Classification Survey during construction, the following plans and documents are to be submitted for reference in addition to the plans and documents specified in **-1**.

- (1) Method and calculation sheets of structural analysis for relevant loading condition
- (2) Data or documents on environmental parameters used for determination of design loads (including data such as past measurement data, the effect of wave breakers, and towing routes) and calculation methods of total external forces and moments due to wind, waves, tidal currents, reactions to mooring or positioning systems and other loads
- (3) Documents on the effects of icing or snow on loading, stability and projected area
- (4) Calculation sheets for intact and damage stability in all conditions
- (5) Documents relating to the requirements of (2) to (4), where the loads and stability are determined using appropriate model tests or computing methods
- (6) Calculation of significant operational loads from derrick and other equipment on the supporting structure
- (7) For self-elevating units, calculations substantiating adequacy of the structure to transmit forces between legs and hull through the jacking or other elevating systems
- (8) For units which rest on the sea bottom, calculation of the unit's ability to resist overturning
- (9) Lines
- (10) Cross curves of stability
- (11) Curves of righting moment and wind heeling moment
- (12) Capacity plans and sounding tables of tanks
- (13) Method and location of non-destructive inspection and procedures of thickness measurements
- (14) Plans indicating arrangement of watertight compartments, openings, their closing appliances, etc. necessary for calculation of stability
- (15) For machinery installations relating to the safety of the unit and installations or systems

related to the propulsion of the unit (only applicable to unit's with main propulsion machinery): plans and documents required in the relevant Chapters in **Part D**

- (16) For machinery installations used solely for operation that is the purpose of the unit: plans and documents indicating safety devices of machinery installations and those specified in **Chapters 9 and 10, Part D**
- (17) Operating ~~booklet~~ manual defined specified in ~~4.2.25~~ **17.1, Part P**
- (18) For large storage units, hydraulic test procedure for hull, evaluation sheets of rupture hatches, and periodical inspection procedure including self checking of rupture hatches
- (19) Procedures of sea trials and stability experiments
- (20) Calculation sheets on positioning systems
- (21) Procedure of testing the dynamic positioning systems (including test items of Periodical Surveys, test procedures, criteria, etc.)
- (22) Other plans and/or documents deemed necessary by the Society.

12.2.3 Presence of Surveyor

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

1 In the Classification Survey, the presence of the Surveyor is required at the following stages of the work in relation to hull construction, equipment, machinery and electrical installations.

- (1) When specified by the requirements of **2.1.4-1** and **2.1.4-2** or when conducting the tests, examinations or inspections specified in **12.2.4**, and **12.2.56**
- (2) For machinery and electrical installations, when the tests, examinations or inspections specified in **11.1.2** or **12.1.2, Part P** are carried out
- (3) For column-stabilized units, when the draught scales are fitted
- (4) For large storage units, when the operation test of rupture hatches is carried out at a pressure below the design operational pressure
- (5) For units requiring the mooring system specified in **Chapter 10, Part P**, when that system is installed on the unit
- (6) For units with a dynamic positioning system, when components of the dynamic positioning system are installed on the units and tests are carried out in accordance with the testing procedure
- (7) For work-ships, when performance tests are carried out on work-related installations.

Paragraphs 12.2.5 and 12.2.6 have been renumbered to Paragraphs 12.2.6 and 12.2.7, and Paragraph 12.2.5 has been added as follows.

12.2.5 Documents to be Maintained on Board

At the completion of a classification survey, the Surveyor confirm that the applicable documents specified in 2.1.6 and the following drawings, plans, manuals, lists, etc, are provided on board the unit.

- (1) Stability information booklets
- (2) Loading manual, for units which require one according to the requirements in 7.6.1-2, Part P
- (3) Operating manual specified in 17.1, Part P
- (4) Testing procedure for dynamic positioning systems, for units with a dynamic positioning system
- (5) Access Manual specified in 9.6.3, Part P
- (6) For mobile offshore drilling units, the maintenance plan specified in 15.2.16-4(2), Part P
- (7) For mobile offshore drilling units, a copy of the Construction Portfolio containing the items

specified in (a) through (d)

(a) The location and extent of application of the grades and strengths of materials

(b) A description of the materials and welding procedures employed

(c) Any other relevant construction information

(d) Restrictions or prohibitions regarding repairs or modifications

12.2.56 Sea Trials and Stability Experiments

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

(Omitted)

2 Stability Experiments

- (1) At the Classification Survey, stability experiments are to be carried out upon completion of the unit. In addition, a stability information booklet prepared on the basis of the particulars of stability determined by the results of stability experiments is to be approved by the Society and provided on board. For mobile offshore drilling units, the results of the stability experiments are to be indicated in the operating manual.
- (2) The stability experiments of an individual unit may be dispensed with, provided that reliable stability data can be obtained from the stability experiments of a similar unit and approval is given by the Society. However, the stability experiments for a column-stabilized unit are to be carried out even though the stability data is available from a similar unit.

12.2.67 Classification Survey of Units not Built under Survey

Sub-paragraph -4 has been amended as follows.

1 In the Classification Survey of units not built under the Society's survey, the actual scantlings of main parts of the units are to be measured in addition to such examination of the hull, equipment, machinery, fire protection, means of escape, fire fighting system, electrical installations, stability and load lines as required for the Special Survey corresponding to the units' age in order to ascertain that they meet the relevant requirements in **Part P**.

2 For the units intended for the Classification Survey specified in -1, the plans and documents specified in **12.2.2** for the Classification Survey during Construction are to be submitted for approval by the Society.

3 Hydrostatic and watertight tests are to be carried out in accordance with the requirements in **2.2.2**.

4 Sea trials and stability experiments are to be carried out in accordance with the requirements in **12.2.56**. However, the sea trials and stability experiments may be dispensed with provided that sufficient information based on previous tests is available and neither alternation nor repair affecting the sea trials has been made. However, the stability experiments for a column-stabilized unit may be required where deemed necessary by the Society even though the stability data is available from a similar unit.

12.3 Annual Surveys

12.3.2 Annual Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings

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

1 It is to be verified that the following documents and booklets have been kept on board and are readily available.

- (1) The approved stability booklet
- (2) Loading manual, for units which require one according to the requirements in **7.6.1-2, Part P**
- (3) ~~Operation booklet~~ **Operating manual defined specified in ~~1.2.25~~ **17.1, Part P****
- (4) Testing procedure for dynamic positioning systems, for units with a dynamic positioning system
- (5) Relevant items listed **Table B3.1** corresponding to the unit's hull structure and purpose
(Sub-paragraphs -2 to -5 are omitted)

12.5 Special Surveys

12.5.2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems and Fittings

Sub-paragraph -5(3) has been amended as follows.

(Omitted)

5 For column-stabilized units, thorough examinations described below are to be carried out, in addition to the survey items specified in **-1** through **-3**. However, where the unit is examined while floating, examinations deemed appropriate by the Society are to be conducted.

- (1) Connections of columns and bracing to upper hull or platform and lower hull or pontoons
However, parts designated by the Society as having a concentration of stress may require non-destructive tests.

- (2) Internal and external parts of columns, lower hulls or footings and bracing

- (3) ~~A deadweight survey~~

~~Where the result of a dead weight survey indicates that the difference from the calculated light ship displacement and the actual operating displacement exceeds 1%, an inclining test is to be conducted. The stability booklet and operating booklet are to be altered based upon the result of the inclining test.~~

A lightweight survey is to be carried out in accordance with the following (a) and (b).

- (a) At the first special survey

A lightweight survey or inclining test is to be conducted at the first special survey and the results are to be indicated in the operating manual. If a lightweight survey is conducted and it indicates a change from the calculated light ship displacement in excess of 1% of the operating displacement, the following i) or ii) is to be conducted.

- i) An inclining test

ii) The difference in weight is to be placed in an indisputably conservative vertical centre of gravity and approved by the Society.

- (b) At succeeding special surveys

Where the following i) and ii) are complied with, light ship displacement may be verified

in operation by comparison of the calculated and observed draught. Where the difference between the expected displacement and the actual displacement based upon draught readings exceed 1% of the operating displacement, a lightweight survey is to be completed in accordance with (a) above.

i) The survey or test at the first special surveys demonstrated that the unit was maintaining an effective weight control program.

ii) At succeeding special surveys this is confirmed by the records of all changes to machinery, structure, outfitting and equipment that affect the light ship data maintained in light ship data alterations log.

- (4) For units over 5 *years of age*, thickness measurements of members in representative ballast tanks in footings and lower hulls, if accessible and at least two pre load tanks is to be carried out, in addition to the examinations specified in (1) through (3).

Where the effectiveness of the corrosion protection of those tanks is verified as a result of the internal examination, thickness measurements of these structural members may be omitted as deemed appropriate by the Society.

(Omitted)

EFFECTIVE DATE AND APPLICATION (Amendment 1-6)

1. The effective date of the amendments is 1 January 2012.
2. Notwithstanding the amendments to the Rules, the current requirements may apply to units 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 unit begins and the assembly of that unit 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 STEEL SHIPS

Part B

Class Surveys

GUIDANCE

2011 AMENDMENT NO.1

Notice No.41 30th June 2011

Resolved by Technical Committee on 3rd February 2011

Notice No.41 30th June 2011

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 1-1

B2 CLASSIFICATION SURVEYS

B2.1 Classification Survey during Construction

B2.1.5 Hydrostatic Tests, Watertight Tests, and Relevant Tests

Sub-paragraph -4 has been added as follows.

4 With respect to the provisions of 2.1.5(3), Part B of the Rules, the inert gas supply piping system, after installation, is to be subjected to an airtight test to at least 1.25 times the maximum working pressure of system. However, in cases where pressure relief valves are provided for the system, the airtight test pressure is to be not less than the setting pressure of pressure relief valve.

EFFECTIVE DATE AND APPLICATION (Amendment 1-1)

- 1.** The effective date of the amendments is 30 June 2011.
- 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.

B3 ANNUAL SURVEYS

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

B3.2.2 General Examination

Sub-paragraph -4 has been amended as follows.

4 With regard to item 21 of **Table B3.2, Part B of the Rules**, the general examinations for the means of embarkation and disembarkation installed on ships not less than 500 *gross tonnage* engaged on international voyages are to ~~confirm that the items specified in~~ be carried out in accordance with (1) to (5) below ~~are in good condition.~~

- (1) The following items **(a)** to **(f)** of accommodation ladders are to be thoroughly examined and confirmed to be in good condition:
 - (a) steps;
 - (b) platforms;
 - (c) all support points such as pivots, rollers, etc;
 - (d) all suspension points such as lugs, brackets, etc;
 - (e) stanchions, rigid handrails, hand ropes and turntables (including pins); and
 - (f) davit structure, wire and sheaves, etc.
- (2) The following items **(a)** to **(d)** of gangways are to be thoroughly examined and confirmed to be in good condition:
 - (a) treads;
 - (b) side stringers, cross-members, decking, deck plates, etc;
 - (c) all support points such as wheel, roller, etc; and
 - (d) stanchions, rigid handrails, hand ropes.
- (3) The following items **(a)** to **(c)** of winches are to be confirmed to be in good condition:
 - (a) brake mechanism including condition of brake pads and band brake;
 - (b) remote control system; and
 - (c) power supply system (in cases where motor is used).
- (4) All fittings and davits on the ship deck associated with accommodation ladders and gangways are to be confirmed to be in good condition.
- (5) The fittings or structures for the means of access to decks such as handholds in a gateway or bulwark ladder and stanchions are to be confirmed to be in good condition.

B8 PROPELLER SHAFT AND STERN TUBE SHAFT SURVEYS

B8.1 Propeller Shaft and Stern Tube Shaft Surveys

B8.1.3 Preventive Maintenance System

Table B8.1.3-1 has been amended as follows.

Table B8.1.3-1 Approval procedure of preventive maintenance system for oil lubricated propeller shafts

Item	Procedures
1. General	(Omitted)
2. Application	<p>-1 The executive management (hereinafter referred to as a “management”) responsible for adopting the preventive maintenance system according to the Procedures is to submit to the Society two copies of the maintenance manual specifying at least the following items.</p> <ol style="list-style-type: none"> (1) Management’s policy for implementing the preventive maintenance system (2) Procedures and personnel responsible for sampling oil, monitoring parameters such as oil analysis results and recording the necessary data (3) Procedures and personnel responsible for selecting and controlling the analytical testing machines (or testing laboratory) and the measuring devices for monitoring parameters (4) Procedures and personnel responsible for review of each parameter monitored and diagnosing the lubricating condition thereby (5) Procedures and personnel responsible for handling any abnormalities found (including those for reporting to the Society) (6) Procedures and personnel responsible for ensuring that proper maintenance is carried out according to the maintenance manual <p>-2 The Society returns onetwo copies of the documents to the applicant after review and approval. The management is to keep <u>one copy</u> of the approved documents on board the ship <u>and the other copy of the approved documents either on hand or at the shipowner’s office.</u></p> <p>-3 The application is to be submitted within 6 <i>months</i> from the date of completion of the Classification Survey or the previous Ordinary Survey of the propeller shaft. <u>However, this 6 month period may be waived in cases where supplementary documentation confirming the soundness of the propeller shafting system is submitted.</u></p>
3. Approval and Notation	(Omitted)
4. Approval Conditions	(Omitted)
5. After Approval	(Omitted)
6. Cancellation of Approval	(Omitted)

B9 PLANNED MACHINERY SURVEYS

B9.1 Planned Machinery Surveys

B9.1.3 Planned Machinery Maintenance Scheme (PMS)

Sub-paragraphs -3 to -5 have been amended as follows.

3 Application Procedure for PMS

To apply for PMS, the shipowner or ship management company or representative is to submit an Application for PMS accompanying the following documents to the Society.

- (1) (Omitted)
- (2) Documents for reference (1 set)
 - (a) Sample form of machinery maintenance records
 - ~~(b) Chief Engineer's profile~~
 - (e) Organization chart identifying the section and the personnel responsibility for the machinery maintenance

4 Approval of PMS

Conditions for approval of PMS are as follows:

- ((1) to (5) are omitted)
- (6) Chief Engineer

The Chief Engineer in charge of PMS is to be a person ~~recommended~~ designated by the shipowner or ship management company ~~and approved by the Society.~~

(7) (Omitted)

5 Surveys for PMS

- (1) (Omitted)
- (2) Annual Survey

General examinations (including review of maintenance records) are to be carried out yearly to confirm that the planned machinery maintenance is being carried out by the ~~approved~~ designated Chief Engineer in accordance with the approved scheme on relevant machinery, equipment, and parts, and that these items are in good condition. Where the condition monitoring maintenance method is applied, it is to be verified that condition monitoring has been properly carried out and as a result of which, machinery, equipment and parts are in good order. Confirmation that the condition monitoring system and maintenance management system are being operated effectively and are also in good order is to be made. Condition monitoring data and the results of the diagnosis are to be evaluated before the survey and are to be retained on board at all times.

((3) to (5) are omitted)

EFFECTIVE DATE AND APPLICATION (Amendment 1-2)

1. The effective date of the amendments is 30 June 2011.
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.

Amendment 1-3

Chapter B10 has been added as follows.

B10 SURVEYS FOR STEEL BARGES

B10.4 Annual Survey

B10.4.2 Annual Survey for Hull, Equipment and Fire Extinction

With respect to 3.2.2, Part B of the Rules, the requirements in B3.2.2-4 need not to be applied.

B10.5 Intermediate Survey

B10.5.2 Intermediate Survey for Hull, Equipment and Fire Extinction

With respect to 4.2.2, Part B of the Rules, the requirements in B3.2.2-4 need not to be applied.

B10.6 Special Surveys

B10.6.2 Special Survey for Hull, Equipment and Fire Extinction

With respect to 5.2.2, Part B of the Rules, the requirements in B3.2.2-4 need not to be applied.

EFFECTIVE DATE AND APPLICATION (Amendment 1-3)

1. The effective date of the amendments is 30 June 2011.

B1 GENERAL

B1.4 Preparation for Survey and Other Items

B1.4.2 Preparation for Surveys

Sub-paragraph -2 has been amended as follows.

2 The applicant is to make the necessary preparations so that tests and examinations to reveal corrosion, deformation, fractures, damage, or other structural deterioration can be conducted smoothly. This includes cleaning compartments; freeing water, scale, dirt, oil residues and gas; and providing means of access, sufficient lighting, non-destructive testing equipment and other necessary items. Furthermore, casings, ceilings or linings, and loose insulation, where fitted, are to be removed as required by the Surveyor. However, the areas of structural members already designated for renewal need only be cleaned and descaled to the extent necessary to determine the limits of renewal. The means of access to the survey area (e.g. temporary staging and rafts) is to comply with the requirements specified in **Means of Access, Chapter 35, Part C of the Rules** and the soundness of its construction is to be verified.

Sub-paragraph -11 has been amended as follows.

11 As a rule, the following preparations in **(1)** to **(4)** are to be made for Special Surveys.

- (1) For the first Special Survey, the preparations specified in **(a)** to **(ed)** below are to be made.
 - (a) Coal and ballast, articles not permanently attached to the hull, and all limber boards are to be removed. Mud boxes are to be opened, strainers of bilge suction pipes exposed and interior of the hull cleared.
 - (b) For ships of single bottom construction, at least one strake of bottom ceilings is to be removed on each side of the centreline and in way of the bilge. Flooring plates are to be removed in machinery space where considered necessary.
 - (c) For ships of double bottom construction, the ceiling is to be removed as required by the Surveyor for examination of the condition of top plating.
 - ~~(d) For holds insulated for carriage of refrigerated cargo, the limber boards and hatch covers are to be removed.~~
 - (ed)** Water and oil residue in tanks and compartments are to be thoroughly cleaned. Gas inside fuel oil tanks and cargo tanks is to be removed to ensure safety during examinations.
- (2) For the second Special Survey, in addition to the requirements in **(1)** above, the preparations specified in **(a)** and **(b)** below are to be made.
 - (a) In way of single bottoms, one strake of the ceilings on each side near the keelson is to be removed for the length of the entire ship.
 - (b) In way of double bottom and deep water or oil tanks, ceilings at the bilge (including limber), centreline parts, lower parts of pillars and bulkheads, shaft tunnels and any other parts considered necessary by the Surveyor are to be removed.
- (3) For the third Special Survey, in addition to the requirements in **(1)** and **(2)** above, the

preparations specified in (a) to (fe) below are to be made.

- (a) Most ceilings and linings in holds and coal bunkers and flooring plates in machinery spaces are to be removed. Rust on the outside and inside of the ship is to be chipped off.
 - (b) Throughout the ship, an extensive number of ceilings in way of single bottom, double bottom and deep water or oil tanks are to be removed.
 - ~~(c) For holds insulated for carriage of refrigerated cargo, the limber boards and hatch covers are to be removed, and further insulation is to be removed from locations considered necessary by the Surveyor.~~
 - (d) Wood sheeting and deck composition on steel decks are to be removed as required by the Surveyor and part of the cement chocks on the ship's sides at the bilges and decks are to be removed.
 - (e) In way of cabin accommodations, the panelling below side scuttles is to be removed. More panels are to be removed where considered necessary by the Surveyor.
 - (f) Lubricating oil tanks are to be thoroughly cleaned out and gas freed to ensure safety during examinations.
- (4) For the fourth and subsequent Special Surveys, in addition to the requirements in (3) above, the preparations specified in (a) and (b) below are to be made.
- (a) In way of single bottoms, one strake of ceilings on each side near the keelson is to be removed for the length of the entire ship.
 - (b) In way of double bottom and deep water or oil tanks, an extensive number of ceilings are to be removed.

EFFECTIVE DATE AND APPLICATION (Amendment 1-4)

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

B3 ANNUAL SURVEYS

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

B3.2.2 General Examination

Sub-paragraph -3 has been amended as follows.

3 The examination stipulated in item 14 of **Table B3.2, Part B of the Rules** includes checking whether movable fire extinguishers and portable fire extinguishers remain effective and whether air bottles of self-contained breathing apparatus are charged and overhaul inspections of the self priming pump and associated equipment, etc. of emergency fire pumps are conducted at least once every five years, and are to be confirmed to be maintained in good working order.

EFFECTIVE DATE AND APPLICATION (Amendment 1-5)

- 1.** The effective date of the amendments is 30 December 2011.
- 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.

Amendment 1-6

Title of Chapter B12 has been amended as follows.

B12 SURVEYS FOR MOBILE OFFSHORE DRILLING UNITS, ~~WORK SHIPS,~~ AND SPECIAL PURPOSE BARGES

B12.2 Classification Survey during Construction

B12.2.2 Submission of Plans and Documents

Sub-paragraphs -7 to -9 have been deleted.

(Omitted)

~~7 For support units of submersibles, the following plans and documents for supporting installations are to be submitted to the Society:~~

- ~~(1) Plans and documents for approval~~
 - ~~(a) Arrangement of supporting installations on support units~~
 - ~~(b) Towing arrangement~~
 - ~~(c) Lifting installation arrangement~~
 - ~~(d) Arrangement of communication devices~~
 - ~~(e) Plans for the position detection system of submersibles~~
- ~~(2) Plans and documents for reference~~
 - ~~(a) Strength calculation sheets of towing system~~
 - ~~(b) Strength calculation sheets of lifting system~~

~~8 For units with a system to recovery oil spills on the surface of the water and/or a storage system for recovered oils (hereinafter referred to as "oil recovery units"), the following plans and documents are to be submitted to the Society:~~

- ~~(1) Submission of plans and documents for approval~~
 - ~~(a) Cooling system or insulation for exhaust pipe of combustible engines~~
 - ~~(b) Exhaust piping system of combustible engines~~
 - ~~(c) Construction and arrangements for spark arresting systems of combustible engines~~
 - ~~(d) Ventilation system diagrams~~
 - ~~(e) Installations of oil recovery systems~~
- ~~(2) Submission of plans and documents for reference~~
 - ~~(a) Construction plan of oil recovery systems~~
 - ~~(b) Operation booklet~~

~~Note: Shipbuilder is to provide the operation booklet which includes the following items to ship operator and to submit a copy to the Society:~~

- ~~1. Operating conditions (including the kind of oils for recovery)~~
- ~~2. Position and time of gas detection~~
- ~~3. Procedures to deal with gas after it is detected~~
- ~~4. Other items deemed necessary for the safety of the ship and lives concerned~~

~~9 For the purpose of **12.2.2-3 Part B of the Rules**, at least the following plans and documents regarding work related installations and drawings indicating the construction of the part of the hull where work related installations are installed are to be submitted to the Society. In addition, in cases where deemed necessary by the Society, additional plans and documents may be requested~~

depending on operation, etc. of such units.

~~(1) Fire fighting Vessels~~

~~(a) Submission of plans and documents for approval~~

- ~~i) Plans showing the arrangements of fire fighting equipment (the locations, types and numbers of fire fighting systems, hydrants, fire fighter's outfits, etc.)~~
- ~~ii) Plans showing the arrangements of sea water inlets~~
- ~~iii) Details of the supporting structures for monitors for fire fighting~~

~~(b) Submission of plans and documents for reference~~

- ~~i) Remote control arrangements of fire monitors for fire fighting~~
- ~~ii) Details of Water spray systems (In cases where water spray systems for fire fighting are installed)~~
- ~~iii) Details of mobile foam generators and their capacity (In cases where mobile foam generators are provided)~~
- ~~iv) Details of foam generator systems~~
- ~~v) Design materials for positioning the units at a specific position during fire fighting operations~~
- ~~vi) Calculation sheets of supporting structures for monitors for fire fighting~~

~~(2) Offshore supply Vessels~~

~~(a) Submission of plans and documents for reference~~

- ~~i) Cargo loading arrangements~~
- ~~ii) Cargo securing plans~~

~~(3) Anchor handling Vessels~~

~~(a) Submission of plans and documents for approval~~

- ~~i) Plans showing the arrangements of anchor handling equipment (the locations, types, etc. of stern rollers, cranes, bollards, etc.)~~
- ~~ii) Details of the supporting structures for anchor handling equipment~~

~~(b) Submission of plans and documents for reference~~

- ~~i) Details of anchor handling equipment~~
- ~~ii) Calculation sheets of the supporting structures for anchor handling equipment~~
- ~~iii) Cargo loading arrangements~~
- ~~iv) Cargo securing plans~~

~~(4) Vessels engaged in towing operations~~

~~(a) Submission of plans and documents for approval~~

- ~~i) Plans showing the arrangements of towing equipment~~
- ~~ii) Details of the supporting structures of towing equipment~~

~~(b) Submission of plans and documents for reference~~

- ~~i) Details of towing equipment~~
- ~~ii) Calculation sheets of the supporting structures for towing equipment~~
- ~~iii) Bollard pull testing procedures~~

~~(5) Vessels engaged in laying objects on the seabed~~

~~(a) Submission of plans and documents for approval~~

- ~~i) Plans showing the arrangements of laying equipment~~
- ~~ii) Details of the supporting structures of laying equipment~~

~~(b) Submission of plans and documents for reference~~

- ~~i) Details of laying equipment~~
- ~~ii) Calculation sheets of the supporting structures for laying equipment~~

B12.2.3 Presence of Surveyor

Sub-paragraphs -7 and -8 have been deleted.

(Omitted)

~~7 For support units of submersibles, the following examinations or tests of supporting systems are to be carried out in the presence of the Surveyor:~~

- ~~(1) When the towing system is tested~~
- ~~(2) When the lifting system is tested~~
- ~~(3) When the supporting system is installed on board~~
- ~~(4) When the performance test of the supporting system is carried out~~

~~8 For the performance tests of the work-related installations of work-ships related to **12.2.3(10), Part B of the Rules**, the following tests are to be carried out. In cases where it is impractical to carry out such tests onboard ship, they may be replaced with examinations carried out at the place of manufacture in the presence of a Surveyor:~~

~~(1) Fire Fighting Vessels~~

- ~~(a) Confirmation that fire fighting equipment is installed according to approved plans showing the arrangements of such equipment~~
- ~~(b) Fire fighting equipment
 - ~~i) Water monitor systems~~
~~Confirmation that the range of each monitor is more than that specified in **Table P9.4.4-1** in cases where all fixed water monitors are in simultaneous use~~
 - ~~ii) Hoses and nozzles for fire fighting~~
~~Confirmation that water jet flows are more than 12m~~
 - ~~iii) Mobile high expansion foam generators~~
~~Confirmation that mobile high expansion foam generators work well~~
 - ~~iv) Foam monitor systems~~
~~Confirmation that the height of foam flow with all fixed foam monitors in simultaneous use at maximum foam generation is more than 15m~~
 - ~~v) Water spray systems~~
~~Confirmation that water spray systems work well~~~~

~~(2) Anchor handling vessels~~

- ~~(a) Confirmation that anchor handling equipment is installed according to approved plans showing the arrangements of such equipment~~
- ~~(b) Confirmation that anchor handling equipment works well~~

~~(3) Vessels engaged in towing operations~~

- ~~(a) Confirmation that towing equipment is installed according to approved plans showing the arrangements of such equipment~~
- ~~(b) Confirmation that towing equipment works well~~

~~(4) Vessels engaged in laying objects on the seabed~~

- ~~(a) Confirmation that laying equipment is installed according to approved plans showing the arrangements of such equipment~~
- ~~(b) Confirmation that laying equipment works well~~

Paragraph B12.2.6 has been amended as follows.

B12.2.6 Classification Survey of Units not Built Under Survey

1 The treatment of the Classification Survey of Units not ~~B~~built~~d~~ under ~~S~~survey is to be in accordance with **B2.2**.

~~2~~ For support units of submersibles, a detailed examination and tests of the supporting system are to be carried out. The lifting system and towing system, if considered necessary by the Surveyor, is to have an overhaul examination and load test.

~~3~~**2** “Where deemed necessary by the Society” stipulated in **12.2.6-4, Part B of the Rules** refers to situations where the difference between the light ship displacement obtained from the deadweight survey specified in **12.5.2-5(3), Part B of the Rules** and the light ship displacement obtained from a stability experiment is found to be greater than 1% of the displacement of the unit in full load condition. This excludes units constructed before 1~~st~~ May, 1991.

B12.3 Annual Surveys

Paragraph B12.3.3 has been deleted.

~~**B12.3.3 Annual Surveys for Machinery and Electrical Installations**~~

~~For support units of submersibles, the general condition of supporting systems is to be examined, and when operation or performance tests of the submersible specified in **11.4.1-1(7), Part B of the Rules** are carried out in water, a performance test of the supporting systems is to be carried out.~~

Chapter B15 has been added as follows.

B15 SURVEYS FOR WORK-SHIPS

B15.2 Classification Surveys during Construction

B15.2.1 General

For the support ships of submersibles, a detailed examination and tests of the supporting system are to be carried out. Overhaul examinations and load tests are to be conducted for the lifting system and towing system, if considered necessary by the Surveyor.

B15.2.2 Submission of Plans and Documents

For the purpose of 15.2.2-1 and -2, Part B of the Rules, at least the following plans and documents regarding work-related installations and drawings indicating the construction of the part of the hull where the work-related installations are installed are to be submitted to the Society. In addition, in cases where deemed necessary by the Society, additional plans and documents may be requested depending on the operations, etc. of such ships.

(1) Vessels engaged in towing operations

- (a) Submission of plans and documents for approval
 - i) Plans showing the arrangements of towing equipment
 - ii) Details of the supporting structures of towing equipment
- (b) Submission of plans and documents for reference
 - i) Details of towing equipment
 - ii) Calculation sheets of the supporting structures for towing equipment
 - iii) Bollard pull testing procedures
 - iv) Manuals for towing

(2) Pusher tugs

- (a) Submission of plans and documents for approval
 - i) Construction of the joint between pusher tugs and barges
- (b) Submission of plans and documents for reference
 - i) Manuals for pushing

(3) Fire fighting vessels

- (a) Submission of plans and documents for approval
 - i) Plans showing the arrangements of fire fighting equipment (the locations, types and numbers of fire fighting systems, hydrants, fire-fighter's outfits, etc.)
 - ii) Plans showing the arrangements of sea water inlets
 - iii) Details of the supporting structures for the monitors for fire fighting
- (b) Submission of plans and documents for reference
 - i) Remote control arrangements of the monitors for fire fighting
 - ii) Details of water-spray systems (In cases where water-spray systems for fire fighting are installed)
 - iii) Details of mobile foam generators and their capacity (In cases where mobile foam generators are provided)
 - iv) Details of foam generator systems
 - v) Design materials for positioning the units at a specific position during fire fighting operations
 - vi) Calculation sheets of the supporting structures for the monitors for fire fighting

(4) Offshore supply vessels

- (a) Submission of plans and documents for reference
 - i) Cargo loading arrangements
 - ii) Cargo securing plans
- (5) Anchor handling Vessels
 - (a) Submission of plans and documents for approval
 - i) Plans showing the arrangements of anchor handling equipment (the locations, types, etc. of stern rollers, cranes, bollards, etc.)
 - ii) Details of the supporting structures for anchor handling equipment
 - (b) Submission of plans and documents for reference
 - i) Details of anchor handling equipment
 - ii) Calculation sheets of the supporting structures for anchor handling equipment
 - iii) Cargo loading arrangements
 - iv) Cargo securing plans
- (6) Vessels engaged in laying objects on the seabed
 - (a) Submission of plans and documents for approval
 - i) Plans showing the arrangements of laying equipment
 - ii) Details of the supporting structures of laying equipment
 - (b) Submission of plans and documents for reference
 - i) Details of laying equipment
 - ii) Calculation sheets of the supporting structures for laying equipment
- (7) Oil Recovery Vessels
 - (a) Submission of plans and documents for approval
 - i) Cooling system or insulation for the exhaust pipes of combustible engines
 - ii) Exhaust piping system of combustible engines
 - iii) Construction and arrangements for the spark arresting systems of combustible engines
 - iv) Ventilation system diagrams
 - v) Installations of oil recovery systems
 - (b) Submission of plans and documents for reference
 - i) Construction plan of oil recovery systems
 - ii) Operation booklet
 - Note: The shipbuilder is to provide an operation booklet which includes the following items to the ship operator and is also to submit a copy to the Society.
 - 1. Operating conditions (including the kind of oils to be recovered)
 - 2. Position and time of gas detection
 - 3. Procedures to deal with gas after it is detected
 - 4. Other items deemed necessary for the safety of the ship and personnel
- (8) Support ships of submersibles
 - (a) Plans and documents for approval
 - i) Arrangement of the supporting installations on support units
 - ii) Towing arrangement
 - iii) Lifting installation arrangement
 - iv) Arrangement of communication devices
 - v) Plans for the position detection system of submersibles
 - (b) Plans and documents for reference
 - i) Strength calculation sheets of towing system
 - ii) Strength calculation sheets of the lifting system

B15.2.3 Presence of Surveyor

1 For the performance tests of the work-related installations of work-ships related to **15.2.3-1(1), Part B of the Rules**, the following tests are to be carried out. In cases where it is impractical to carry out such tests on board ship, they may be replaced with examinations carried out at the place of manufacture in the presence of a Surveyor.

(1) Vessels engaged in towing operations

(a) Confirmation that towing equipment is installed according to approved plans showing the arrangements of such equipment

(b) Confirmation that towing equipment works well

(2) Fire Fighting Vessels

(a) Confirmation that fire fighting equipment is installed according to approved plans showing the arrangements of such equipment

(b) Fire fighting equipment

i) Water monitor systems

Confirmation that the range of each monitor is more than that specified in Table O6.4.2 in cases where all fixed water monitors are in simultaneous use

ii) Hoses and nozzles for fire fighting

Confirmation that water jet flows are more than 12m

iii) Mobile high expansion foam generators

Confirmation that mobile high expansion foam generators work well

iv) Foam monitor systems

Confirmation that the height of foam flow with all fixed foam monitors in simultaneous use at maximum foam generation is more than 15m

v) Water-spray systems

Confirmation that water-spray systems work well

(3) Anchor handling vessels

(a) Confirmation that anchor handling equipment is installed according to approved plans showing the arrangements of such equipment

(b) Confirmation that anchor handling equipment works well

(4) Vessels engaged in laying objects on the seabed

(a) Confirmation that laying equipment is installed according to approved plans showing the arrangements of such equipment

(b) Confirmation that laying equipment works well

2 For support ships of submersibles, the following examinations or tests of supporting systems are to be carried out in the presence of the Surveyor:

(1) When the towing system is tested

(2) When the lifting system is tested

(3) When the supporting system is installed on board

(4) When the performance test of the supporting system is carried out

B15.3 Annual Surveys

B15.3.3 Annual Surveys for Machinery and Electrical Installations

For support units of submersibles, the general condition of supporting systems is to be examined, and when the operation or performance tests of the submersible specified in **11.4.1-1(7), Part B of the Rules** are carried out in water, a performance test of the supporting systems is to be carried out.

B15.6 Docking Surveys

B15.6.1 General

Ships which will undergo an in-water survey are to comply with the provisions of 6.1.2-3, Part B of the Rules relevant to their configuration/construction. Where the unit has a dynamic positioning system, a suitable means to allow inspection of the exterior of thrusters is to be provided.

EFFECTIVE DATE AND APPLICATION (Amendment 1-6)

1. The effective date of the amendments is 30 December 2011.
2. Notwithstanding the amendments to the Guidance, the current requirements may apply to ships for which the date of contract for construction is before the effective date.
3. Notwithstanding the provision of preceding 2., the amendments to the Guidance may apply to ships for which the application is submitted to the Society before the effective date upon request by the owner.

B12 SURVEYS FOR MOBILE OFFSHORE DRILLING UNITS, WORK SHIPS, AND SPECIAL PURPOSE BARGES

B12.2 Classification Survey during Construction

B12.2.2 Submission of Plans and Documents

Sub-paragraph -5 has been amended as follows.

(Omitted)

5 For units specified in **12.1.1-2, Part B of the Rules**, the ~~operation booklet~~ operating manual specified in **12.2.2-2(17), Part B of the Rules** is to include operating procedures of any onshore installations.

(Omitted)

Paragraphs B12.2.5 and B12.2.6 have been amended as follows.

B12.2.56 Sea Trials and Stability Experiments

1 An example of when the demonstration test stipulated in **12.2.56-1(3), Part B of the Rules** is required would be when large scale storage units are subject to national regulations that require compatibility with those laws to be demonstrated. The test procedure of the demonstration test is to be submitted to the Society.

2 “Reliable stability data” stipulated in **12.2.56-2(2), Part B of the Rules** refers to results obtained by a deadweight survey that are reasonably close to the results obtained from a previous sister unit.

B12.2.67 Classification Survey of Units not Built Under Survey

1 The treatment of Classification Survey of Units not Built under Survey is to be in accordance with **B2.2**.

2 For support units of submersibles, a detailed examination and tests of the supporting system are to be carried out. The lifting system and towing system, if considered necessary by the Surveyor, is to have an overhaul examination and load test.

3 “Where deemed necessary by the Society” stipulated in **12.2.67-4, Part B of the Rules** refers to situations where the difference between the light ship displacement obtained from the ~~deadweight~~ lightweight survey specified in **12.5.2-5(3), Part B of the Rules** and the light ship displacement obtained from a stability experiment is found to be greater than 1% of the displacement of the unit in full load condition. This excludes units constructed before 1st May, 1991.

B12.5 Special Surveys

B12.5.2 Special Surveys for Hull, Equipment, Fire Extinguishing Systems, and Fittings

Sub-paragraph -4 has been amended as follows.

(Omitted)

4 The result of the ~~dead-light~~ lightweight survey specified in **12.5.2-5(3), Part B of the Rules** is to be recorded in the Classification Survey Report. However, for units constructed before 1st May, 1991, the ~~dead-light~~ lightweight survey may be dispensed with.

EFFECTIVE DATE AND APPLICATION (Amendment 1-7)

1. The effective date of the amendments is 1 January 2012.
2. Notwithstanding the amendments to the Guidance, the current requirements may apply to units 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 unit begins and the assembly of that unit has commenced comprising at least 50 tonnes or 1% of the estimated mass of all structural material, whichever is the less.