

Subject :

Amendments to the Rules, Part B

- Survey Intervals
- Internal Inspections

NK TECHNICAL INFORMATION

No. 94

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To Shipowners and Shipbuilders concerned

Part B of the Rules for the Survey and Construction of Steel Ships and the relevant Guidances are amended taking account of the results of recent investigation into hull damages due to corrosion in way of sea water ballast tanks. Requirements on intervals of Periodical Surveys and their survey items were also reviewed and amended. These amendments are in line with the Unified Requirement 27 "Hull and Machinery Classification Survey" adopted by IACS (International Association of Classification Societies). The amendments are applicable to the ships flying flags other than Japanese flag and come into force on 1st July, 1991.

Outlines of the amendments ;

1. Special Surveys

Survey intervals are changed from 4-yearly intervals to 5-yearly intervals. Special Survey may be commenced at the 4th Annual Survey. No extension of Special Survey can be granted.

2. Intermediate Surveys

(1) Survey Intervals

Intermediate Surveys are to be carried out on all ships instead of the second or third Annual Survey counting from the following surveys;

1) For Tankers, Ships carrying Liquefied Gases in Bulk and Ships carrying Dangerous Chemicals in Bulk :

Classification Survey and each subsequent Special Survey

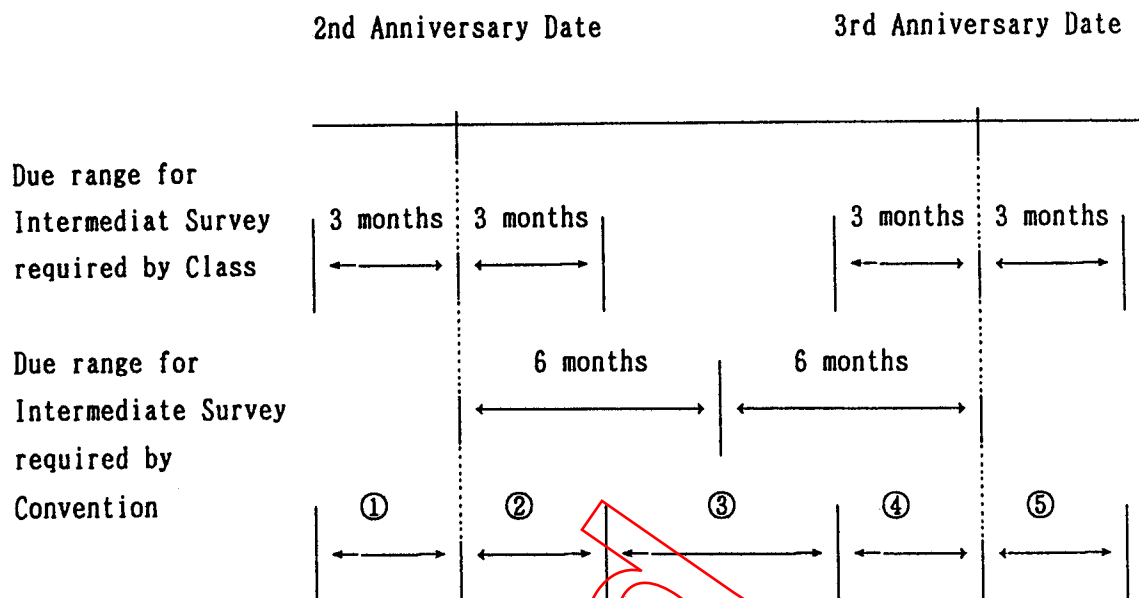
2) For Ships other than the above 1) :

Special Survey No.1 and each subsequent Special Survey

Due range of Intermediate Survey required by Class is within 3 months either way of the 2nd anniversary date or the 3rd anniversary date from the date of completion of previous Special Survey and is not exactly the same range of those required by Conventions. It is obviously convenient for shipowners to have their ships surveyed at either period ② or ④ in



the chart below as both Class and Convention intermediate surveys could be completed simultaneously.



- ①: Intermediate Survey required by Class can be carried out.
(Intermediate Survey required by Convention is to be carried out separately during a period of ②, ③ or ④.)
- ②: Intermediate Survey required by both Class and Convention can be carried out at the same time.
- ③: Intermediate Survey required by Convention can be carried out.
(In case where Intermediate Survey required by Class was not carried out during a period of ① or ②, such survey is to be carried out during a period of ④ or ⑤.)
- ④: Intermediate Survey required by both Class and Convention can be carried out at the same time.
- ⑤: Intermediate Survey required by Class can be carried out.
(Intermediate Survey required by Convention should have already been carried out.)

(2) Requirements for Intermediate Surveys

- (i) An internal general examination of representative spaces used for salt water ballast is required for all ships over 5 years and up to 10 years of age.
- (ii) An internal general examination of all spaces used for salt water ballast is required for all ships over 10 years of age.

If such inspections mentioned in (i) and (ii) above reveal no visible structural defects, the examination may be limited to a verification that the protective coatings remain efficient.

In spaces other than double bottom tanks, where a protective coating is found to have deteriorated and it is not renewed, or where a protective coating was not applied from the time of construction, maintenance of class is to be made subject to the spaces in question being internally examined and gauged as necessary at annual intervals.

3. Application

These amendments are applicable to ships flying flags other than Japanese flag and come into force on 1st July, 1991.

Should you have any queries in this connection, please do not hesitate to contact the Survey Department of the Society's Head Office.

Attachment: (1) "Amendments to the Rules for the Survey and Construction of Steel Ships (Part B)"
(2) "Amendments to the Guidance for the Survey and Construction of Steel Ships (Part B)"

AMENDMENTS TO THE RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

"Rules for the Survey and Construction of Steel Ships" were partly amended as follows;

Part B CLASS SURVEYS

Chapter 3 PERIODICAL SURVEYS

3.2 Intervals of Periodical Surveys

Paragraph 3.2.4 is amended as follows;

3.2.4 Intermediate Surveys

1 Intermediate Surveys are to be carried out on all ships instead of the second or third Annual Survey after completion of the following surveys;

- (1) Classification Survey and each subsequent Special Survey for Tankers, Ships carrying Liquefied Gases in Bulk and Ships carrying Dangerous Chemicals in Bulk
- (2) Special Survey No.1 and each subsequent Special Survey for Ships other than the above (1).

3.2.5 Special Surveys

Sub-paragraph 1 and 2 are amended as follows;

1 Survey Intervals

Special Surveys are to be carried out at 5-yearly intervals. The first Special Survey is to be completed within 5 years from the date of build or date of Special Survey for Classification and thereafter 5 years from the date of completion of the previous Special Survey.

2 Commencement of Special Surveys

The Special Survey may be commenced at the 4th Annual Survey after Classification Survey or previous Special Survey and be progressed during the succeeding year with a view to completion by the 5th anniversary date.

As part of the preparation for the Special Survey, the thickness determination should be dealt with, so far as practicable, in connection with the 4th Annual Survey.

3.3 Annual Surveys for Hull

3.3.1 Requirements for Annual Surveys

Sub-paragraph 1(14) is added as follows;

- 1(14) In the case of ships over 5 years of age, where a protective coating for spaces used for salt water ballast excluding double bottom tanks was not

applied from the time of construction, the spaces in question are to be internally examined and gauged as necessary.

3.5 Intermediate Surveys for Hull

Paragraph 3.5.1 is amended as follows;

3.5.1 Requirements for Intermediate Surveys

(1) At each Intermediate Survey, all the requirements for Annual Survey are to be complied with.

(2) In addition to the requirement in (1) above, the following requirements are to be complied with.

(a) All Ships over 5 years and up to 10 years of age

An internal general examination of representative spaces used for salt water ballast is to be carried out.

(i) If such inspections reveal no visible structural defects, the examination may be limited to a verification that the protective coatings remain efficient.

(ii) Where significant coating break down, corrosion or other defects are found, the examination is to be extended to other ballast spaces of the same type.

(iii) In spaces other than double bottom tanks, where a protective coating is found to have deteriorated and it is not renewed, maintenance of class is to be made subject to the spaces in question being internally examined and gauged as necessary at annual intervals.

(b) All Ships over 10 years of age

An internal general examination of all spaces used for salt water ballast is to be carried out.

(i) If such inspections reveal no visible structural defects, the examination may be limited to a verification that the protective coatings remain efficient.

(ii) In spaces other than double bottom tanks, where a protective coating is found to have deteriorated and it is not renewed, maintenance of class is to be made subject to the spaces in question being internally examined and gauged as necessary at annual intervals.

(3) In addition to the requirements in (1) and (2) above, the following requirements are also to be complied with.

(a) All Tankers

An examination of cargo, crude oil washing, bunker, ballast, steam and vent piping systems on weather decks as well as vent masts and headers is to be carried out. If upon examination there is any doubt as to the condition of the piping, the piping may be required to be pressure tested, gauged or both.

(b) Tankers over 10 years of age

(i) General examination of anchoring and mooring equipment is to be carried out as far as practicable. For this purpose the anchors should be partially lowered and raised using windlass.

(ii) An internal examination of at least one forward and one after cargo tanks is to be carried out.

(iii) An internal examination of machinery and boiler spaces including tank tops, bilges and cofferdams, sea suction and overboards is to be carried out.

(c) Ships primarily carrying timber cargoes, Bulk Carriers and Ore Carriers over 10 years of age

An internal examination of at least one forward and one after cargo holds is to be carried out. For the ship which has only two cargo holds, either one cargo hold is to be examined.

(d) Ships over 15 years of age other than those mentioned in (b) and (c) above

An internal examination of at least one forward and one after cargo holds is to be carried out. For the ship which has only two cargo holds, either one cargo hold is to be examined.

3.6 Special Surveys for Hull

3.6.1 Special Survey No 1 (for ships up to 5 years old)

In paragraph 1.(4) and 2(1), the following is added to the end of the present provision.

"For spaces used for salt water ballast excluding double bottom tanks, where a protective coating is found to have deteriorated and it is not renewed, maintenance of class is to be made subject to the spaces in question being internally examined at annual intervals. Where extensive corrosion is found, thickness gauging is to be carried out."

3.12 Periodical Surveys of Ships carrying Liquefied Gases in Bulk and Ships carrying Dangerous Chemicals in Bulk

3.12.2 Periodical Surveys of Ships carrying Dangerous Chemicals in Bulk

2. Intermediate Survey

In sub-paragraph (3), the phrase "in 3.5.1(1)(b) and (e)" is amended to "in 3.5.1(3)(b)(ii)".

AMENDMENTS TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

"Guidance for the Survey and Construction of Steel Ships" were partly amended as follows;

Part B CLASS SURVEYS

B 3 PERIODICAL SURVEYS

B 3.2 Intervals of Periodical Surveys

B 3.2.3 Extension of Docking Surveys

Sub-paragraph (1)(d) is amended as follows;

- (1)(d) Where internal examination is required according to 3.5.1(3)(c) or (d), Part B of the Rules, internal examination of holds in question.

B 3.5 Intermediate Surveys for Hull

B 3.5.1 Requirements for Intermediate Surveys

The present provision is numbered to 1, and following provision is newly added and numbered to 2.

2. The representative spaces used for salt water ballast referred to in 3.5.1(2)(a), Part B of the Rules, are to include at least fore peak tank, aft peak tank and two of deep tanks located within the length of cargo space.