

Subject :

Enhanced Survey Programme
for Bulk Carriers

NK TECHNICAL INFORMATION

No. : 194

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To Shipowners and shipbuilders concerned:

As you know, the Enhanced Survey Programme for Bulk Carriers has been in effect since 1 July 1993 as a result of the investigation on many losses or major structural damage to large bulk carriers which occurred during 1990 and 1991.

In addition to the above, considering serious damages taken place again frequently during 1994, IACS has recently agreed to amend the present Enhanced Survey Programme as part of an extensive new package of tough measures and initiatives to further improve bulk carrier safety. A corresponding table for periodical survey rules regarding the new package of bulk carrier safety measures has been attached for your information.

The amendment to the Enhanced Survey Programme is summarized as follows.

- 1) Enhanced Special Survey for cargo holds shall be carried out by 31 December 1997 on bulk carriers that have not undergone such a survey since 1 July 1993.

(Applicable to bulk carriers built and delivered before 1987 and 150 m in length or greater)

- 2) The requirement for periodical surveys will be amended to strengthen the Enhanced Survey Programme for bulk carriers.

The Society will implement the above amendments from 1 January 1997.

If your vessel falls under the provisions of item 1) above, please make arrangement for an Enhanced Special Survey for cargo holds to be inspected in accordance with the attached guidance by 31 December 1997.

Regarding item 2) above, we will amend the present Rules, which will be informed you in due course accordingly.

If you have any questions, please feel free to contact the Survey Department at head office of Class NK at any time.

- Attachments:
1. Guidance for Advanced Enforcement of the Enhanced Special Survey of Cargo Holds
 2. Corresponding Table for Periodical Survey Rules

ClassNK

NIPPON KAIJI KYOKAI
4-7, KIOI-CHO, CHIYODA-KU,
TOKYO 102, JAPAN.

TEL: 03-3230-1201
FAX: 03-3230-3524
TELEX: J22975 CLASSNK
2324280 CLASNKJ
CABLE: CLASSNK TOKYO

(Attachment 1)

Guidance for Advanced Enforcement of the Enhanced Special Survey of Cargo Holds

1. Application

Enhanced Special Surveys shall apply to bulk carriers which

- 1) have the class notation of (ESP),
- 2) are 150 m in length or greater,
- 3) have not undergone an Enhanced Special Survey for cargo holds since 1 July 1993, and
- 4) are 10 years of age or older as of 1 January 1997.

2. Survey items

(1) Internal inspection of all cargo holds

(2) Close-up surveys of the following structural members

- All hold frames in all cargo holds including their end attachments
- All cargo hold transverse bulkheads (including stiffeners and girders)
- All cargo hold hatch covers and coamings
- All deck plating within the inside lines of the hatch openings between cargo hold hatches
- Lower parts of air pipes and sounding pipes in cargo holds

(3) Thickness measurements of the following structural members

- Hold frames including their end attachments
- Hold transverse bulkheads
- Hatch side and end coamings

(Extent of the measurements shall be in accordance with table B3.3 of the Rules.)

3. Timing of Surveys

In general, the above mentioned survey should be carried out on the occasion of the vessel's next periodical survey, but no later than 31 December 1997.

4. Reporting

In case where this survey is carried out at the fourth annual survey from the last Special Survey, such survey shall be credited as Special Survey (commence) or Special Survey (incomplete).

(Attachment 2)

Corresponding Table for Periodical Survey Rules

1.Special Survey

The members which are to be carried out close-up survey of cargo hold, are to be added as follows.

However, as a result of the damage investigation of aged and large bulk carrier, the range of members of close-up survey is enlarged and the range of the present NK rules can cover the range of additional revised.

	ESP of IACS (From 1st July 1993)	Amendment of ESP of IACS (From 1st Jan 1997)	ESP of NK Rules (Present)
SS NO.1	25% of shell frames in forward cargo hold	Ditto to the left	All shell frames in all cargo holds
	Transverse bulkhead in two cargo holds	Ditto to the left	Two transverse bulkhead & lower part of other transverse bulkheads
SS NO.2	25% of shell frames in forward cargo hold	25% of shell frames in all cargo holds	All shell frames in all cargo holds
	One transverse bulkhead in each cargo hold.	One transverse bulkhead in each cargo hold	One transverse bulkhead & lower part of other transverse bulkhead
SS NO.3	25% of shell frames in all cargo holds	Shell frames of forward cargo hold & 25% of shell frames in other cargo holds	All shell frames in all cargo holds
	Transverse bulkhead in all cargo holds	Ditto to the left	Transverse bulkhead in all cargo holds
SS NO.4 or after	All shell frames in all cargo holds	Ditto to the left	All shell frames in all cargo holds
	Transverse bulkhead in all cargo holds	Ditto to the left	Transverse bulkhead in all cargo holds

2. Annual Survey

Amendment of Annual Survey for cargo hold as follows.

	ESP of IACS (Present)	Amendment of ESP of IACS (From 1st Jan 1997)	ESP of NK Rules (Present)
Less than 10 years of age	(no requirements)	Close-up survey of hatch covers and coamings	(no requirements)
Over 10 years of age	Internal examination of representative forward and afterward cargo holds	Close-up survey of hatch covers and coamings Internal examination of all cargo holds Close-up survey of lower 1/3 of minimum 25% shell frames in forward cargo hold	Internal examination of representative forward and afterward cargo holds
Over 15 years of age	Internal examination of all cargo holds. Close-up survey of lower part of shell frames in forward cargo hold	Close-up survey of hatch covers and coamings Internal examination of all cargo holds Close-up survey of lower 1/3 of minimum 25% of shell frames in forward cargo hold and one other cargo hold.	Internal examination of all cargo holds Close-up survey of the lower part of shell frames in forward cargo hold

[Outline]

- (1) Close-up survey of hatch covers and coamings is added.
- (2) Over 10 years of age: Close-up survey of shell frame and internal examination of all cargo holds are required.

3. Intermediate Survey

Amendment of Annual Survey for cargo hold as follows.

	ESP of IACS (Present)	Amendment of ESP of IACS (From 1st Jan 1997)	ESP of NK Rules (Present)
Between SS No.1 and SS No.2	Internal examination of all cargo holds Close-up survey of shell frames of sufficient extent and transverse bulkhead in the forward cargo hold and one other cargo hold The area found suspected the previous SS	Internal examination of all cargo holds Close-up survey of minimum 25% of shell frames, including their upper and lower part and transverse bulkhead, in the forward cargo hold and one other cargo hold The area found suspected the previous SS Close-up survey of hatch covers and coamings	Internal examination of all cargo holds Close-up survey of shell frames and transverse bulkhead in the forward cargo hold and one other cargo hold The area found suspected the previous SS
Between SS No. and SS No.	Ditto to the above	Internal examination of all cargo holds. Close-up survey of minimum 25% of shell frames, including their upper and lower part and transverse bulkhead, in all cargo holds The area found suspected the previous SS Close-up survey of hatch covers and coamings.	Ditto to the above
After SS No.	Ditto to the above	Internal examination of all cargo holds Close-up survey of all shell frames, including their upper and lower part and transverse bulkhead in all cargo holds The area found suspected the previous SS Close-up survey of hatch covers and coamings.	Ditto to the above

[Outline]

- (1) Survey is enhanced on the whole.
- (2) The requirements of IS after SS No.3 are the same as the requirements of SS.