

Subject

Survey Programme required for ESP Surveys

# **ClassNK**

## ***Technical Information***

No. TEC-0624  
Date 7 April 2005

To whom it may concern

It has been required to submit a Survey Programme including survey items as part of preparation for the Special Survey in oil tankers, bulk carriers and ships carrying dangerous chemicals in bulk and for Intermediate Survey in bulk carriers over 10 years of age and in oil tankers and ships carrying dangerous chemicals in bulk over 15 years old of age.

ClassNK has amended the form of Survey Programme to add following information.

1. Main structural plan including information regarding use of high tensile steels (Page 4)
2. Hull damage experience (Page 9)

Its form and an example are attached herewith. Electrical file of Survey Programme is available on the ClassNK web site.

Address : [http://www.classnk.or.jp/hp/download/dl\\_appli.asp](http://www.classnk.or.jp/hp/download/dl_appli.asp)

Please prepare the survey programme and submit it to the ClassNK surveyor prior to a survey meeting. The ClassNK surveyor will examine the survey programme and return it with signature. In case survey place is not decided, please submit the survey programme to the Survey Department.

This ClassNK Technical Information supersedes the previous ClassNK Technical Information No. TEC-0574 dated 16 March 2004.

For any questions about the above, please contact:

NIPPON KAIJI KYOKAI (ClassNK)  
Survey Department, Administration Center, Head Office  
Address: 4-7 Kioi-cho, Chiyoda-ku, Tokyo 102-8567, Japan  
Tel.: +81-3-5226-2027 / 2028  
Fax: +81-3-5226-2029  
E-mail: [svd@classnk.or.jp](mailto:svd@classnk.or.jp)

Attachment:

1. Form Survey Programme (sample form)
2. Form Survey Programme (original blank form)

NOTES:

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## 1:Survey Programme (example)

### **(SURVEY PROGRAMME)**

For Special Survey No. 2 / ~~Intermediate Survey~~ that is scheduled from July 2004 to October 2005 for the ship as stated below:

SHIP'S NAME: **NK BULKER**

CLASS ID: **959999**

PORT OF REGISTRY: **Tokyo**

CLASS NOTATION: **NS\*(BC,2,4E)**

FLAG: **Japanese**

DEADWEIGHT(MT): **45,000**

OFFICIAL NO./CALL SIGN: **XXXX**

GROSS TONNES: **26,000**

OWNED BY: **NK Company**

L(m) REGISTERED: **180.0m**

Place/ location where the Special / Intermediate Survey is being conducted:

(If commencement-completion system is applied, outlines of each survey are to be listed in the next page.)

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This Survey Programme has been prepared with the following taken into account;

- (1) past survey results of the classification society including the result of the latest thickness measurement, and
- (2) inspection records by the owners. (See the attached.)

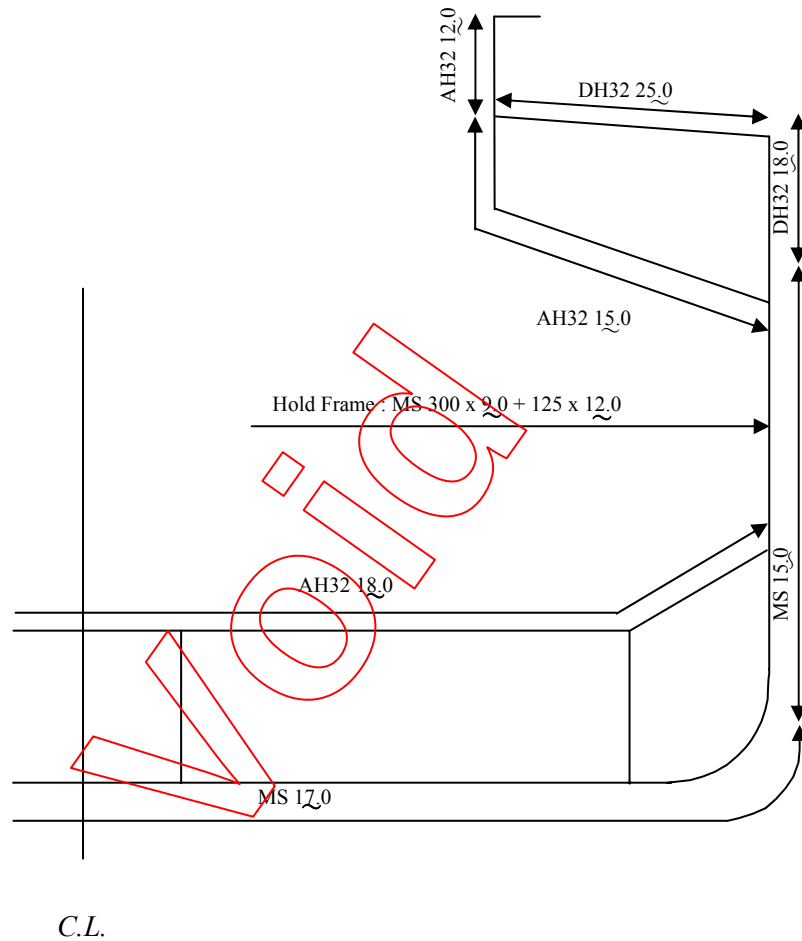
If commencement-completion system is applied, outlines of each survey are to be listed.

|                                                            |                    |                                                      |                                                                                                     |                    |
|------------------------------------------------------------|--------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------|
| Survey Place                                               | Singapore          | Nagoya, Japan                                        | NK Dockyard<br>Tokyo Japan                                                                          | Unknown            |
| When<br>(mm/yyyy)                                          | 07/2004            | 08/2004                                              | 09/2004                                                                                             | 10/2005            |
| Docking Survey<br>(yes/no)                                 | No                 | No                                                   | Yes                                                                                                 | No                 |
| Tanks/Holds for<br>internal examinations                   | All Top Side Tanks | Nil                                                  | All Cargo holds<br>All Bilge Hopper Tanks<br>FPT & APT<br>No.1 FOT(P)<br>DOT(S)<br>FWT<br>Pipe Duct | Steering gear room |
| Tanks/Holds for<br>pressure tests                          | Nil                | No.3 Cargo Hold<br>FPT & APT<br>No.1 – No.2 FOT(P/S) | All Top Side Tanks<br>All bilge hopper tanks<br>DOT(P)<br>DWT<br>LOT                                | Nil                |
| Close-up survey &<br>thickness<br>measurements<br>(yes/no) | Yes                | No                                                   | Yes                                                                                                 | No                 |

The internal examination and close-up survey to be carried out concurrently with Docking Survey, as far as practicable.  
Survey place and schedule are changeable, provided that all survey items required by the Rules are carried out by the specified due date.



## SURVEY PROGRAMME



Main structural plan, including information regarding use of high tensile steels. As to detail, structural drawings on board are to be referred to.

## SURVEY PROGRAMME

### LIST OF TANKS/HOLDS TO BE SURVEYED:

| Tank/Hold              | Protection      | Condition of Coating |
|------------------------|-----------------|----------------------|
| All Top Side Tanks     | Coating & Anode | Good                 |
| All Bilge Hopper Tanks | Coating & Anode | Good                 |
| FPT & APT              | Coating & Anode | Good                 |
| All Cargo Holds        | Coating         | Fair                 |
| No.1 FOT(P)            | -               | -                    |
| DOT(S)                 | -               | -                    |
| FWT                    | Coating         | Good                 |
| Pipe duct              | Coating         | Good                 |

VOID

## SURVEY PROGRAMME

### NOMINATION OF TANKS/HOLDS AND AREAS FOR CLOSE-UP SURVEY:

| Tank/Hold                 | Areas to be close-up surveyed                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| No.1 Top Side Tank(P)     | Half of transverse webs<br>Water tight bulkhead                                                                                                          |
| Other Top Side Tanks      | One transverse web                                                                                                                                       |
| No.1 Bilge Hopper Tank(S) | Half of transverse web<br>Water tight bulkhead                                                                                                           |
| Other Bilge Hopper Tanks  | One transverse web                                                                                                                                       |
| All cargo holds           | All hold frames<br>All transverse bulkhead<br>Hatch covers and hatch coaming<br>Cross deck plates<br>Air pipes and sounding pipes in way of inner bottom |

## SURVEY PROGRAMME

### NOMINATION OF TANKS/HOLDS TO BE TESTED :

| Tank/Hold              |
|------------------------|
| All top side tanks     |
| All bilge hopper tanks |
| FPT & APT              |
| No.1-No.2 FOT(P/S)     |
| DOT(P)                 |
| DWT                    |
| LOT                    |

VOID

## SURVEY PROGRAMME

### NOMINATION OF HULL STRUCTURAL MEMBER TO HAVE THICKNESS MEASUREMENT TAKEN :

| Tank/Hold                 | Hull structural member                                                                                                                      |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| No.1 Top Side Tank(P)     | Half of transverse web<br>Water tight bulkhead                                                                                              |
| Other Top Side Tanks      | One transverse web                                                                                                                          |
| No.1 Bilge Hopper Tank(S) | Half of transverse webs<br>Water tight bulkhead                                                                                             |
| Other Bilge Hopper Tanks  | One transverse web                                                                                                                          |
| Cargo holds               | Hold frames(No.1 C/H: all, others: 25%)<br>Transverse bulkheads<br>Hatch covers and hatch coaming<br>Cross deck plates<br>Upper deck plates |
| Wind and water strakes    |                                                                                                                                             |

Where substantial corrosion is found, the thickness measurement is to be expanded.

## SURVEY PROGRAMME

### **HULL DAMAGE EXPERIENCE:**

| <b>Member</b>              | <b>Damage</b>                                                              | <b>Counter measures taken</b>                                            |
|----------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Hatch coaming on main deck | Nos 5 hatch coaming stays were cracked                                     | Partly renewed at the previous                                           |
| Hold frames in No.1 C/H    | Hold frames lower brackets Fr. 200-205 (S. side) were holed due to wastage | The lower brackets were renewed at the previous dry dock in October 2003 |

VOID

As to detail, Survey Records filed on board is to be referred to.

**INSPECTION RECORDS BY THE OWNER:**

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**Outlines of owner's inspection result (Inspection records by the owner may be attached.)**

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Owner's inspection records are attached herewith.

**VOID**

**SCHEME OF REPAIR :**

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**Outlines of scheduled repairs**

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The transverse bulkhead between No.1 and No.2 cargo hold is to be reinforced in accordance with IACS UR-S19.

Hold frames are to be reinforced by tripping brackets, then blasted and coated taking account of the result of thickness measurements in accordance with UR-S31.

VOID

## SURVEY PROGRAMME

CONDITIONS FOR SURVEY:

— SAFETY GEARS ON —

O<sub>2</sub> Content meter                      Type: XXXX

Accuracy to be checked by: Chief Officer

Gas Detector                      Type: XXXX

Accuracy to be checked by: Chief Officer

Portable Safety Light: **3** sets

Available Breathing Apparatus: **3** sets

Are the safety gears also available at the repair yard? ☒ Yes / No

— SAFETY AND CLEANLINESS ASSURANCE PROCEDURE FOR CARGO TANK INSPECTION —

All Cargo Tanks are to be completely discharged, ventilated, gas-free and cleaned for safe and efficient survey operation.

~~Complete cargo discharge to be confirmed by~~

O<sub>2</sub> content measurement and gas detection to be confirmed by \_\_\_\_\_

Cleanliness in cargo tanks to be confirmed by

## — SAFETY AND CLEANLINESS ASSURANCE PROCEDURE FOR BALLAST TANK INSPECTION —

All Ballast Tanks are to be completely discharged, ventilated, and cleaned for safe and efficient survey operation.

Complete ballast discharge to be confirmed by **Chief Officer**

O<sub>2</sub> content measurement and gas detection to be confirmed by **Chief Officer**

Cleanliness in ballast tanks to be confirmed by **Chief Officer**

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ILLUMINATION

| Cargo Lights |
|--------------|
|              |
|              |
|              |
|              |

\_\_\_\_ (For Overall Survey) \_\_\_\_\_

\_\_\_\_\_

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## SURVEY PROGRAMME

### THICKNESS MEASUREMENTS:

Name of the firm engaged in thickness measurements: NK Marine

This SURVEY PROGRAMME is prepared by NK Company

on 30 June 2004 for the ship's 

|                             |
|-----------------------------|
| Special Survey No. <u>2</u> |
|-----------------------------|

~~\*/Intermediate Survey\*~~

and noted by the undersigned, on 1 July 2004 at Singapore ,

Nippon Kaiji Kyokai.

TARO KAIJI  
( Taro Kaiji )

(  
Nippon Kaiji Kyokai

NK REF. NO. \_\_\_\_\_

Having regard to actual condition of the ship, surveyors may modify the survey items and extents, if they deemed necessary.

\* Delete as appropriate.

## 2:Survey Programme

### **(SURVEY PROGRAMME)**

For Special Survey No.\_\_\_\_/ Intermediate Survey that is scheduled from \_\_\_\_\_to  
\_\_\_\_\_for the ship as stated below:

SHIP'S NAME:

CLASS ID:

PORT OF REGISTRY:

CLASS NOTATION:

DEADWEIGHT(MT):

FLAG:

OFFICIAL NO./CALL SIGN:

OWNED BY:

GROSS TONNES:

L(m) REGISTERED:

Place/ location where the Special / Intermediate Survey is being conducted :

(If commencement-completion system is applied, outlines of each survey are to be listed in the next page.)

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This Survey Programme has been prepared with the following taken into account;

- (1) past survey results of the classification society including the result of the latest thickness measurement, and
- (2) inspection records by the owners.

If commencement-completion system is applied, outlines of each survey are to be listed.

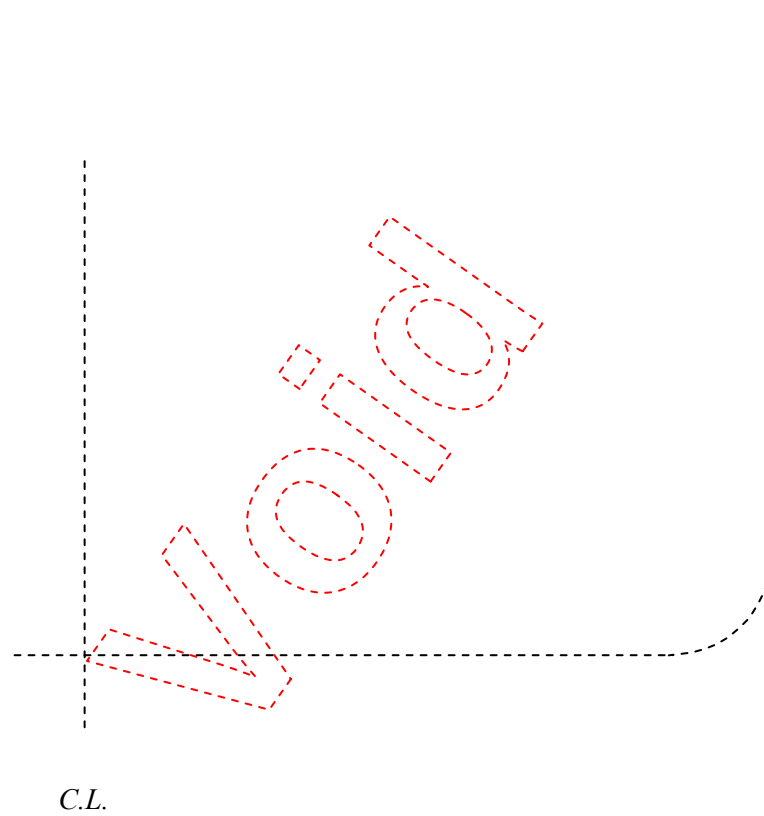
|                                                            |  |  |  |  |
|------------------------------------------------------------|--|--|--|--|
| Survey Place                                               |  |  |  |  |
| When<br>(mm/yyyy)                                          |  |  |  |  |
| Docking Survey<br>(yes/no)                                 |  |  |  |  |
| Tanks/Holds for<br>internal examinations                   |  |  |  |  |
| Tanks/Holds for<br>pressure tests                          |  |  |  |  |
| Close-up survey &<br>thickness<br>measurements<br>(yes/no) |  |  |  |  |

The internal examination and close-up survey to be carried out concurrently with Docking Survey, as far as practicable.  
Survey place and schedule are changeable, provided that all survey items required by the Rules are carried out by the specified due date.

Void

GENERAL ARRANGEMENT AND TANK/HOLD PLAN OF THE SHIP

## SURVEY PROGRAMME



Main structural plan, including information regarding use of high tensile steels. As to detail, structural drawings on board are to be referred to.

**SURVEY PROGRAMME**

**LIST OF TANKS/HOLDS TO BE SURVEYED:**

| Tank/Hold | Protection | Condition of Coating |
|-----------|------------|----------------------|
|-----------|------------|----------------------|

VOID

**SURVEY PROGRAMME**

**NOMINATION OF TANKS/HOLDS AND AREAS FOR CLOSE-UP SURVEY:**

| <b>Tank/Hold</b> | <b>Areas to be close-up surveyed</b> |
|------------------|--------------------------------------|
|------------------|--------------------------------------|

VOID

## SURVEY PROGRAMME

### NOMINATION OF TANKS/HOLDS TO BE TESTED :

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| Tank/Hold |
|-----------|
|-----------|

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VOID

## SURVEY PROGRAMME

**NOMINATION OF HULL STRUCTURAL MEMBER TO HAVE THICKNESS MEASUREMENT TAKEN :**

| <b>Tank/Hold</b> | <b>Hull structural member</b> |
|------------------|-------------------------------|
|------------------|-------------------------------|

VOID

Where substantial corrosion is found, the thickness measurement is to be expanded.

**HULL DAMAGE EXPERIENCE:**

**SURVEY PROGRAMME**

| Member | Damage | Counter measures taken |
|--------|--------|------------------------|
|--------|--------|------------------------|

VOID

As detail, Survey Records filed on board is to be referred to.

**INSPECTION RECORDS BY THE OWNER:**

**SURVEY PROGRAMME**

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**Outlines of owner's inspection result (Inspection records by the owner may be attached.)**

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**VOID**

**SCHEME OF REPAIR :**

**SURVEY PROGRAMME**

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**Outlines of scheduled repairs**

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VOID

## SURVEY PROGRAMME

### CONDITIONS FOR SURVEY:

#### — SAFETY GEARS ON BOARD —

O<sub>2</sub> Content meter Type: \_\_\_\_\_

Accuracy to be checked by: \_\_\_\_\_

Gas Detector Type: \_\_\_\_\_

Accuracy to be checked by: \_\_\_\_\_

Portable Safety Light: \_\_\_\_\_ sets

Available Breathing Apparatus: \_\_\_\_\_ sets

Are the safety gears also available at the repair yard? Yes / No \_\_\_\_\_

#### — SAFETY AND CLEANLINESS ASSURANCE PROCEDURE FOR CARGO TANK INSPECTION —

All Cargo Tanks are to be completely discharged, ventilated, gas-freed and cleaned for safe and efficient survey operation.

Complete cargo discharge to be confirmed by \_\_\_\_\_

O<sub>2</sub> content measurement and gas detection to be confirmed by \_\_\_\_\_

Cleanliness in cargo tanks to be confirmed by \_\_\_\_\_

#### — SAFETY AND CLEANLINESS ASSURANCE PROCEDURE FOR BALLAST TANK INSPECTION —

All Ballast Tanks are to be completely discharged, ventilated, and cleaned for safe and efficient survey operation.

Complete ballast discharge to be confirmed by \_\_\_\_\_

O<sub>2</sub> content measurement and gas detection to be confirmed by \_\_\_\_\_

Cleanliness in ballast tanks to be confirmed by \_\_\_\_\_

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ILLUMINATION

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— (For Over All Survey) —

A handwriting practice sheet featuring ten horizontal lines. The word "Voin" is written in a large, red, outlined font, slanted upwards from left to right. The letters are positioned as follows: 'V' spans the 4th and 5th lines; 'o' spans the 5th and 6th lines; 'i' spans the 6th and 7th lines; 'n' spans the 7th and 8th lines. The remaining lines (1, 2, 3, 9, 10) are empty.

— (For Close-up-Survey) —

Areas nominated for close-up survey: \_\_\_\_\_

Means for Safe Access: \_\_\_\_\_

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Areas nominated for close-up survey : \_\_\_\_\_

Means for Safe Access: \_\_\_\_\_

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Areas nominated for close-up survey : \_\_\_\_\_

Means for Safe Access: \_\_\_\_\_

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Areas nominated for close-up survey : \_\_\_\_\_

Means for Safe Access: \_\_\_\_\_

## SURVEY PROGRAMME

### THICKNESS MEASUREMENTS:

Name of the firm engaged in thickness measurements: \_\_\_\_\_

This SURVEY PROGRAMME is prepared by \_\_\_\_\_

on \_\_\_\_\_ for the ship's Special Survey No. \_\_\_\_\_ \*/Intermediate Survey\*

and noted by the undersigned, on \_\_\_\_\_ at \_\_\_\_\_ ,

Nippon Kaiji Kyokai.

\_\_\_\_\_  
( )

\_\_\_\_\_  
( )  
Nippon Kaiji Kyokai

NK REF. NO. \_\_\_\_\_

Having regard to actual condition of the ship, surveyors may modify the survey items and extents, if they deemed necessary.

\* Delete as appropriate.