Subject

Survey Programme required for ESP Surveys

ClassNK
Technical Information

No. TEC-0574
Date 16 March 2004

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

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

Attachment:

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

1. Form Survey Programme (sample form)

(SURVEY PROGRAMME)

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

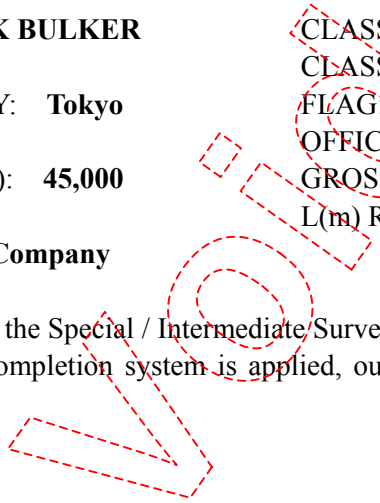
SHIP'S NAME: **NK BULKER**

PORT OF REGISTRY: **Tokyo**

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

OWNED BY: **NK Company**

CLASS ID: **959999**
CLASS NOTATION: **NS*(BC,2,4E)**
FLAG: **Japanese**
OFFICIAL NO./CALL SIGN: **XXXX**
GROSS TONNES: **26,000**
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.)

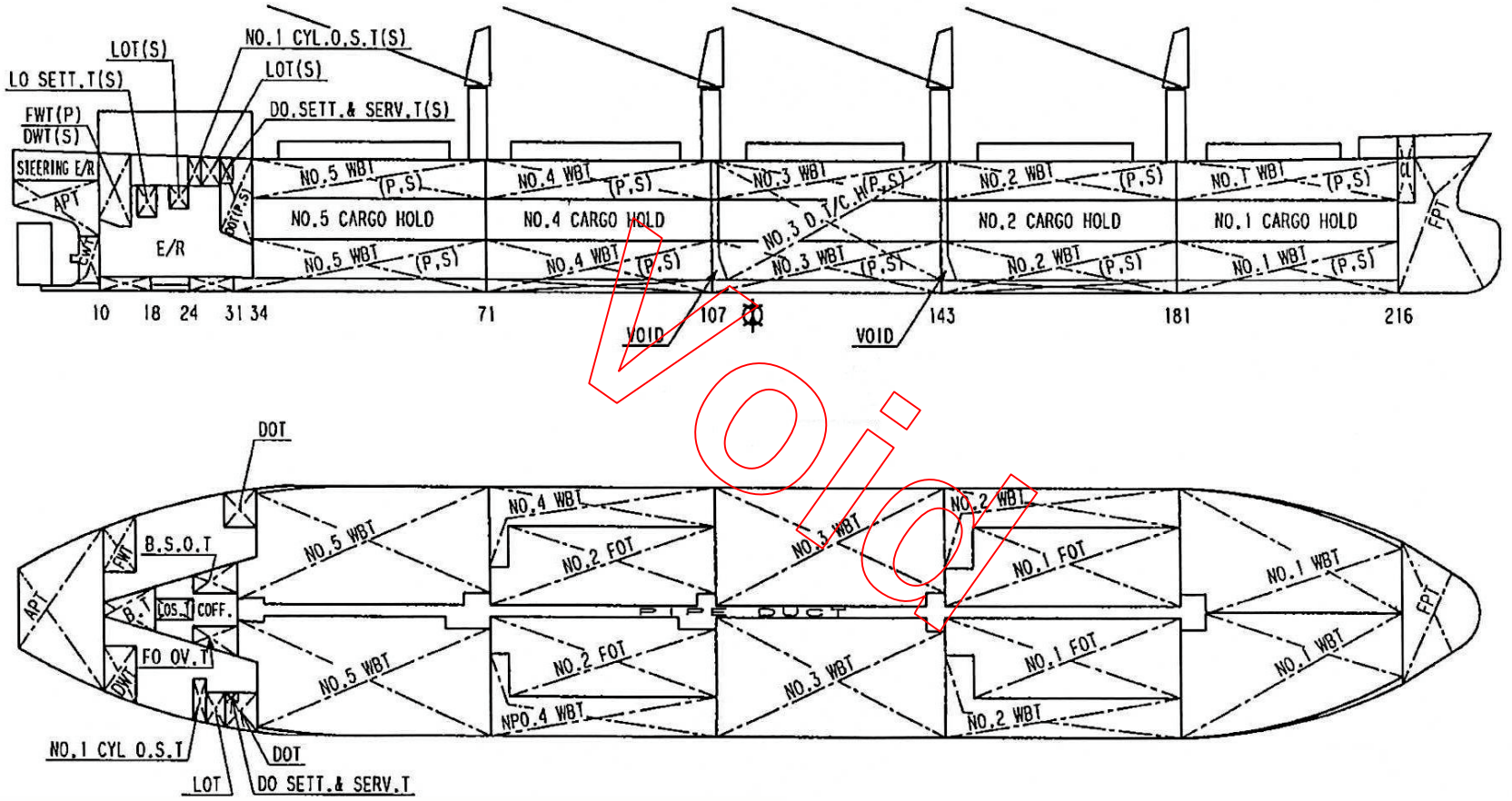
This Survey Programme has been prepared with the following taken into account;

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



GENERAL ARRANGEMENT AND TANK/HOLD PLAN OF THE SHIP

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**

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**
	Water tight bulkhead
Other Top Side Tanks	**One transverse web**
No.1 Bilge Hopper Tank(S)	**Half of transverse web**
	Water tight bulkhead
Other Bilge Hopper Tanks	**One transverse web**
All cargo holds	**All hold frames**
	All transverse bulkhead
	Hatch covers and hatch coaming
	Cross deck plates
	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

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

Where substantial corrosions is fond, the thickness measurement is to be expanded.

SURVEY PROGRAMME

INSPECTION RECORDS BY THE OWNER :

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

Owner's inspection records are attached herewith.

SURVEY PROGRAMME

SCHEME OF REPAIR :

Outlines of scheduled repairs

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.

SURVEY PROGRAMME

CONDITIONS FOR SURVEY:

SAFETY GEARS ON BOARD

O_2 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-freed and cleaned for safe and efficient survey operation.

Complete cargo discharge to be confirmed by

O_2 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_2 content measurement and gas detection to be confirmed by **Chief Officer**

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

SURVEY PROGRAMME

ILLUMINATIO

Lighting Arrangement other than Portable Safety Lights for Individuals.

Cargo Lights

ACCESS TO STRUCTURES:

（For Overall Survey）

Cargo holds: Spiral Ladders and permanent access

（For Close-up-Survey）

Areas nominated for close-up survey: **Cargo Holds**

Means for Safe Access: **Cherry pickers**

Areas nominated for close-up survey : **Top side tanks, bilge hopper tanks**

Means for Safe Access: **Permanent access**

Areas nominated for close-up survey :

Means for Safe Access:

Areas nominated for close-up survey :

Means for Safe Access:

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. **2** */~~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.

(SURVEY PROGRAMME)

For Special Survey No._____ / Intermediate Survey that is scheduled from _____ to _____ for the ship as stated below:

SHIP'S NAME:

CLASS ID:
CLASS NOTATION:

PORT OF REGISTRY:

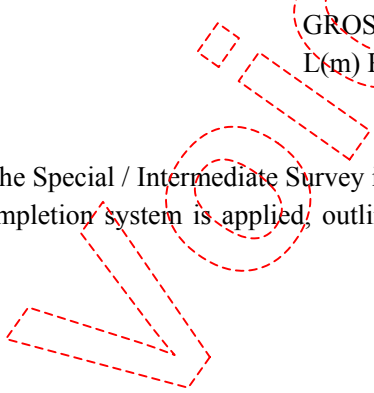
FLAG:
OFFICIAL NO./CALL SIGN:

DEADWEIGHT(MT):

GROSS TONNES:
L(m) REGISTERED:

OWNED BY:

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.)



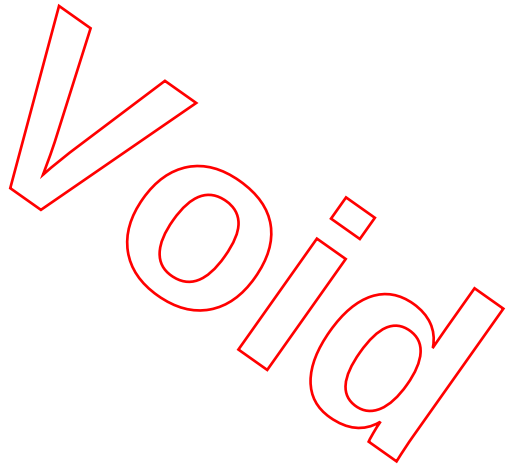
This Survey Programme has been prepared with the following taken into account;

(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 (mm/yyyy)				
Docking Survey (yes/no)				
Tanks/Holds for internal examinations				
Tanks/Holds for pressure tests				
Close-up survey & thickness measurements (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.



GENERAL ARRANGEMENT AND TANK/HOLD PLAN OF THE SHIP

LIST OF TANKS/HOLDS TO BE SURVEYED:

Tank/Hold	Protection	Condition of Coating

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

Tank/Hold	Areas to be close-up surveyed

NOMINATION OF TANKS/HOLDS TO BE TESTED :

Tank/Hold

NOMINATION OF HULL STRUCTURAL MEMBER TO HAVE THICKNESS MEASUREMENT TAKEN :

Tank/Hold	Hull structural member

Where substantial corrosions is fond, the thickness measurement is to be expanded.

SURVEY PROGRAMME
INSPECTION RECORDS BY THE OWNER:

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

SCHEME OF REPAIR :

Outlines of scheduled repairs

SURVEY PROGRAMME

CONDITIONS FOR SURVEY:

SAFETY GEARS ON BOARD

O_2 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_2 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_2 content measurement and gas detection to be confirmed by _____

Cleanliness in ballast tanks to be confirmed by _____

ILLUMINATION

Lighting Arrangement other than Portable Safety Lights for Individuals.

ACCESS TO STRUCTURES:

(For Over All Survey)

(For Close-up-Survey)

Areas nominated for close-up survey:

Means for Safe Access:

Areas nominated for close-up survey :

Means for Safe Access:

Areas nominated for close-up survey :

Means for Safe Access:

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.