Thickness Measurement Report

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Table of Contents

TM Forms / Sketches

Supporting Documents

Certificate No:	MNDE/2015/6871
Valid From:	26 June 2015
Date of Issue:	04 August 2015
Issue Office:	Southampton GTC
LR File Ref:	MNDE/40692

Lloyd's Register Approved Service Supplier

This is to Certify:

Elander Inspection Ltd
Suite 128, 11800 River Road
Richmond, BC V6X 1Z7
Canada

has been assessed and approved in accordance with the requirements of *Lloyd's Register Approval for Thickness Measurement of Hull Structure* as a service supplier for the provision of

Thickness Measurements of Hull Structure

made in accordance with LR's relevant Rules and Regulations for Classification as amended from time to time. The thickness measurements may be used by the surveyors or shipowners' representatives when making decisions affecting classification, statutory certification or the operation of the ship.

Personnel Authorised to carry out Thickness Measurement Survey's pertinent to this approval are listed on page 2 of 2.

The approval is conditional upon the firm maintaining the audited scheme and notifying Lloyd's Register of any significant changes in personnel, equipment or procedures.

This certificate is issued to the above firm and is valid until the date given below.

Expiry Date: 26 June 2018

Philip Leaver
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

APPROVED
APPROVED SERVICE SUPPLIER

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Valid From:	26 June 2015
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Lloyd's Register Approved Service Supplier

List of Approved Personnel

Supervisors

Allan Elander

Operators

Peter Gabor

Jonathan Chin

Emile Dehard

Philip Leaver
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

APPROVED
APPROVED SERVICE SUPPLIER

ELANDER INSPECTION LTD.

Nondestructive Testing and Marine Inspection

REGISTERED OFFICE:
Suite 128 – 11800 River Road,
Richmond, B.C. Canada V6X 1Z7
Phone: (604)214-1318 Fax: (604)214-1349
E-mail: info@elanderinspection.ca
Web Page: Elanderinspection.ca

MAILING ADDRESS:
PO Box 32130
Cambie, R.P.O.
Richmond, B.C.
V6X 3R9, Canada

CERTIFICATE OF CALIBRATION

Instrument:	Panametrics 38DL+	Certificate Number:	EIL17-038-03
Serial Number:	171474904	Humidity:	70%
Transducer Model:	D7906-SM	Temperature:	20 C
S.N. of Transducer:	1042265	Software Version:	1.05
Calibration Date:	April 22nd, 2017	Recalibration Date:	April 22nd, 2018

This certifies that the calibration of the above ultrasonic thickness gauging system has been verified to be within the tolerance and measurement range listed below, using calibration standards with measured thickness traceable to the National Institute of Standards and Technology (N.I.S.T.). The calibration standard material is Carbon Steel and/or Stainless Steel.

All units below are: Inches/mm

System Calibration Data

Test Block S/N:	Certified Length Inches/mm	Measured Length Inches/mm	Deviation Inches/mm	Tolerance (+-) 5%	Within Tolerance
15-4600	12.5	12.50	0.00	Accept	Yes
15-4600	10.0	10.10	0.10	Accept	Yes
15-4600	7.5	7.50	0.00	Accept	Yes
15-4600	5.0	5.1	0.10	Accept	Yes
15-4600	2.5	2.50	0.01	Accept	Yes
DSC 05-7829	25.00	24.98	0.02	Accept	Yes
Gauge Velocity after calibration		N/A Inches/us	Gauge zero after calibration		N/A

A full diagnostic self-test was performed as detailed in the Instruction Manual, Ultrasonic Thickness Gauge. All instrument settings were functioning correctly within manufacture's specified tolerances.

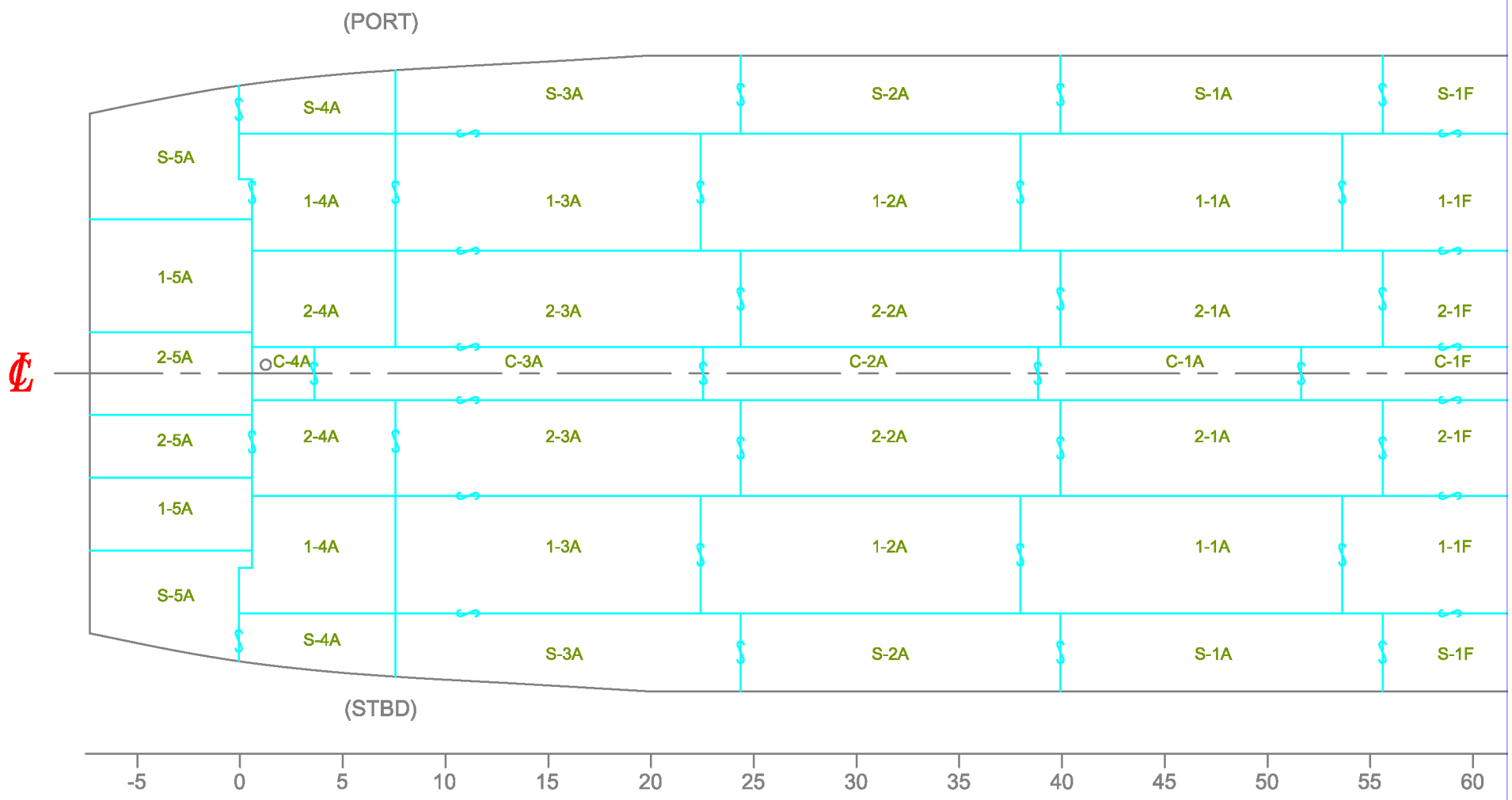
Note: The measurement accuracy of any ultrasonic gauging system is dependent on the performance and proper usage of both the gauge and the transducer. This certificate of calibration identifies the part number and serial number of the transducer used to make the recorded measurements. System performance with other transducers may differ especially with transducers that have been subjected to excessive wear or overheating. This concern makes it imperative to periodically verify the system performance as outlined in the instrument operating manual. If the above calibration shows that the ultrasonic gauging system is out of tolerance, the instrument will be taken out of service and sent to an independent repair facility for repair and calibration as necessary.

The above gauge passes all test requirements of the original manufacture's specification.

Technician performing Calibration: Allan Elander, CGSB Level II, Certificate No. 1136

Technician: Allan Elander Date: April 22, 2017 Time: 5:10 pm

Signature: s,22



CAR MAIN DECK #2

CLIENT:	BC FERRIES
PROJECT:	NORTH SEA WOLF
TITLE:	CAR MAIN DECK #2

ELANDER INSPECTION LTD.

NONDESTRUCTIVE TESTING AND INSPECTION SERVICES

#128 - 11800 River Road
Richmond, BC
Canada V6X 1Z7

Phone: (604) 214-1318
Fax: (604) 214-1349
E-mail: *info@elanderinspection.ca*

SCALE:	NONE	DRAWN:	-	DATE:	FEB 20, 18
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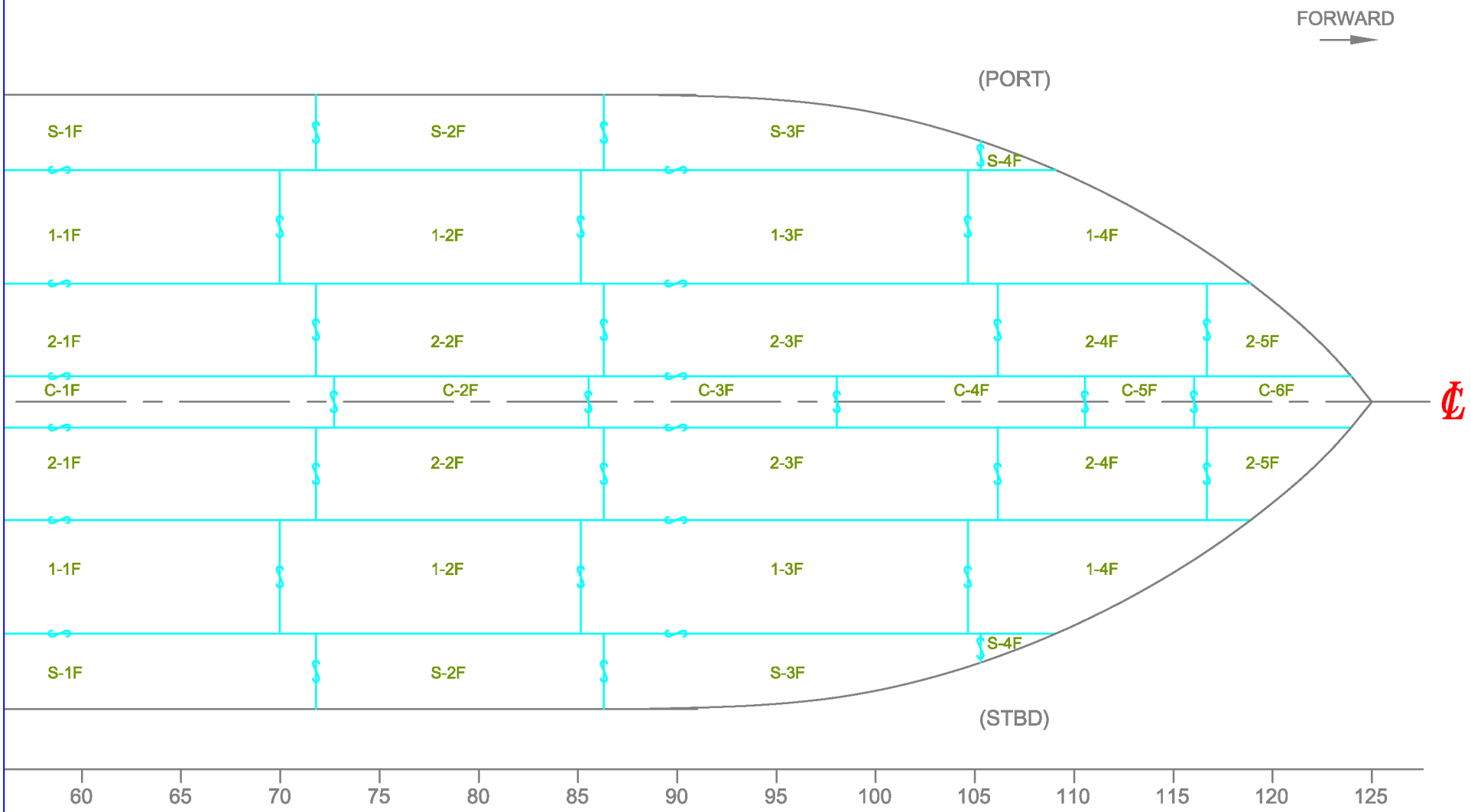
DWG. NO.:	001	SHEET:	1 OF 2	REV.:	-



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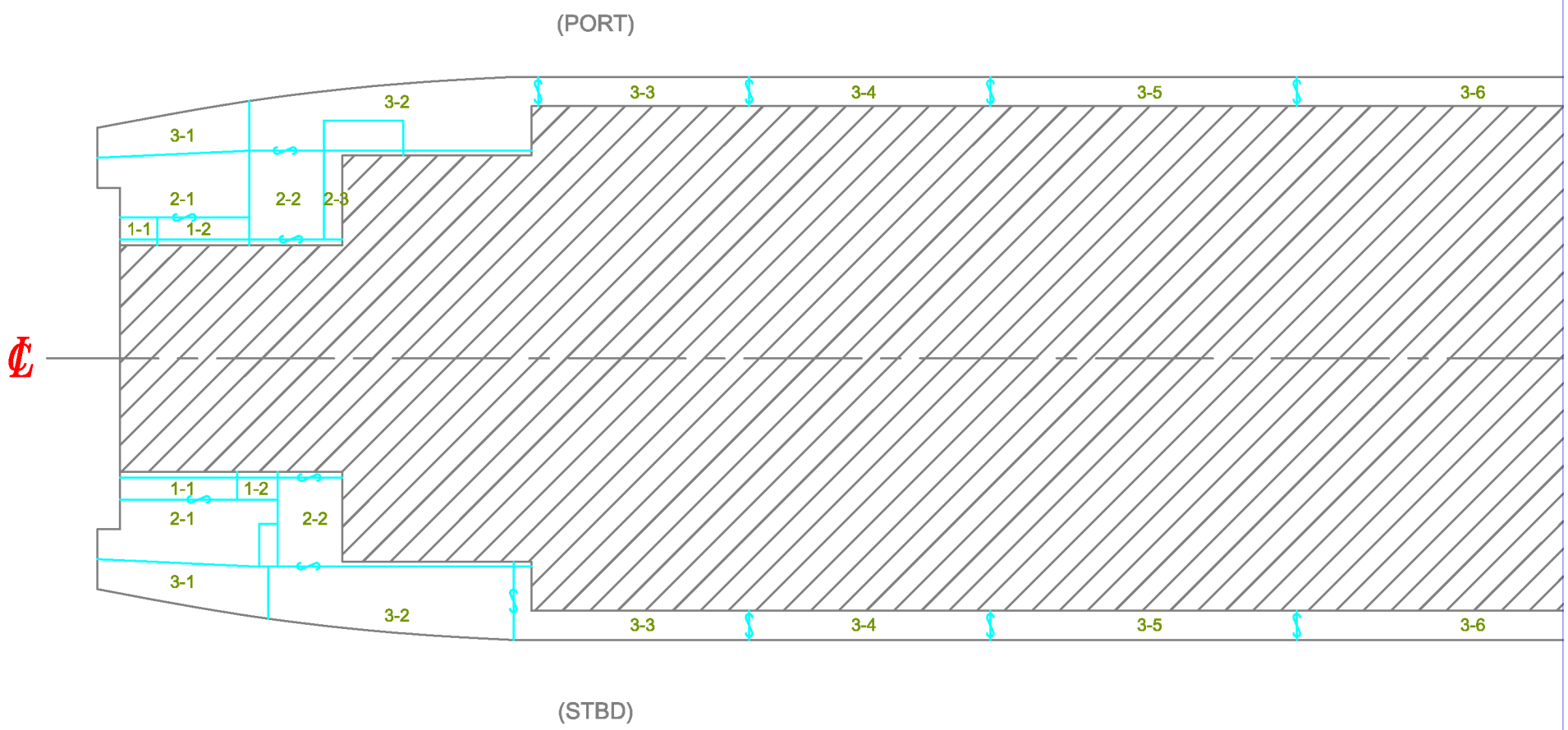

DECK #4- EXPOSED DECK PLATES (AFT)

CLIENT:	BC FERRIES
PROJECT:	NORTH SEA WOLF
TITLE:	DECK #4- EXPOSED DECK PLATES (AFT)

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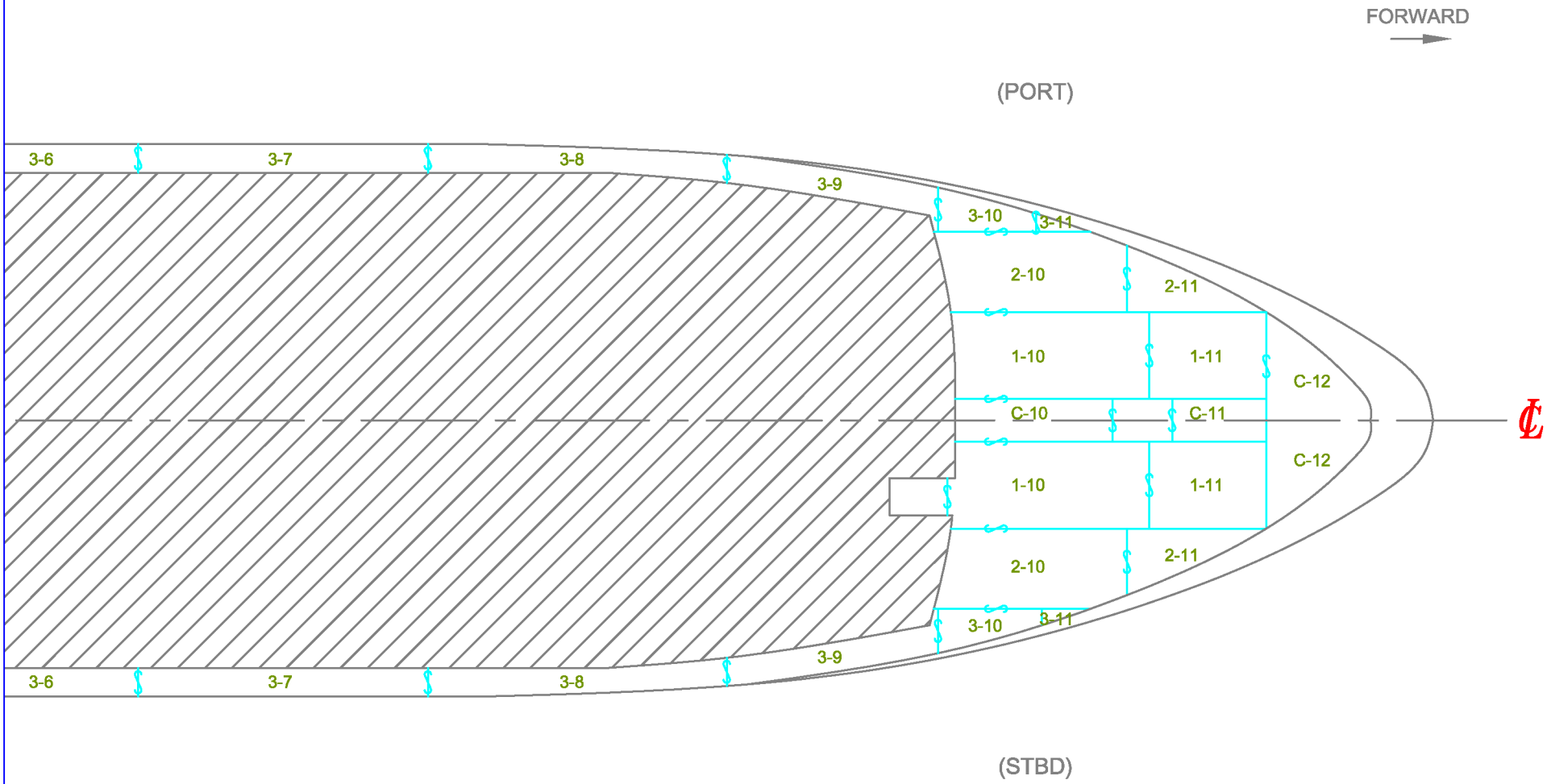

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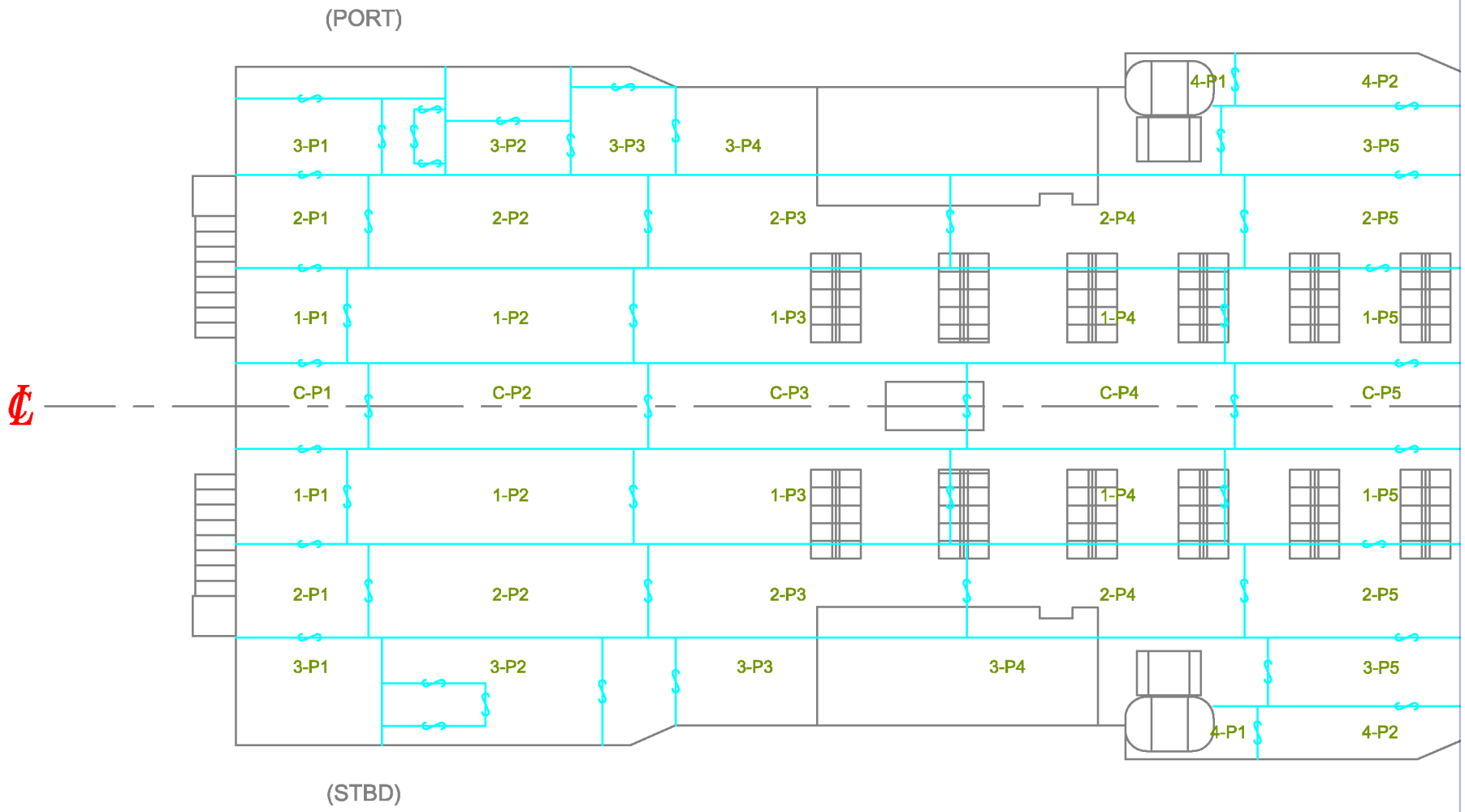

DECK #5- EXPOSED DECK PLATES (AFT)

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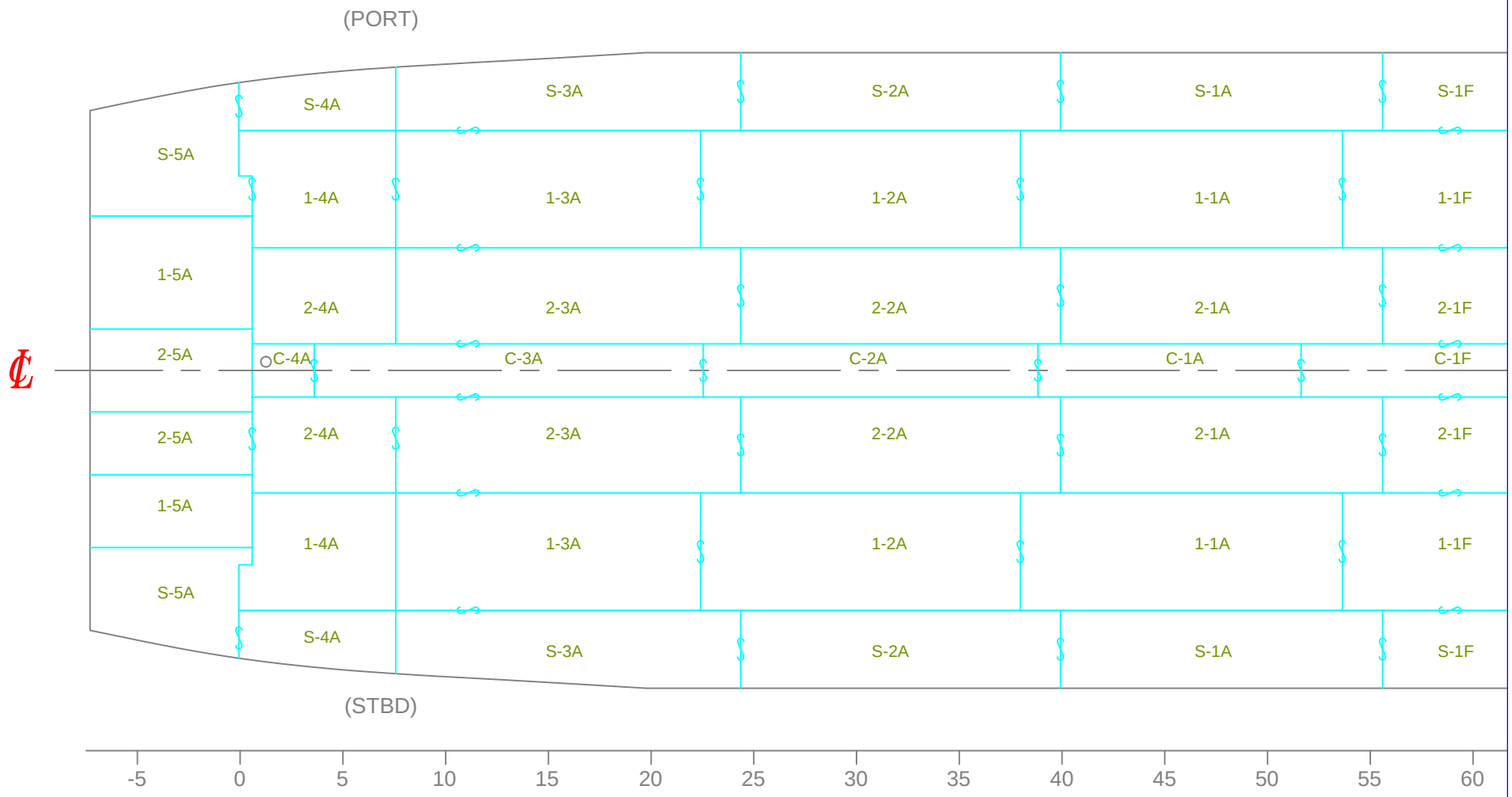

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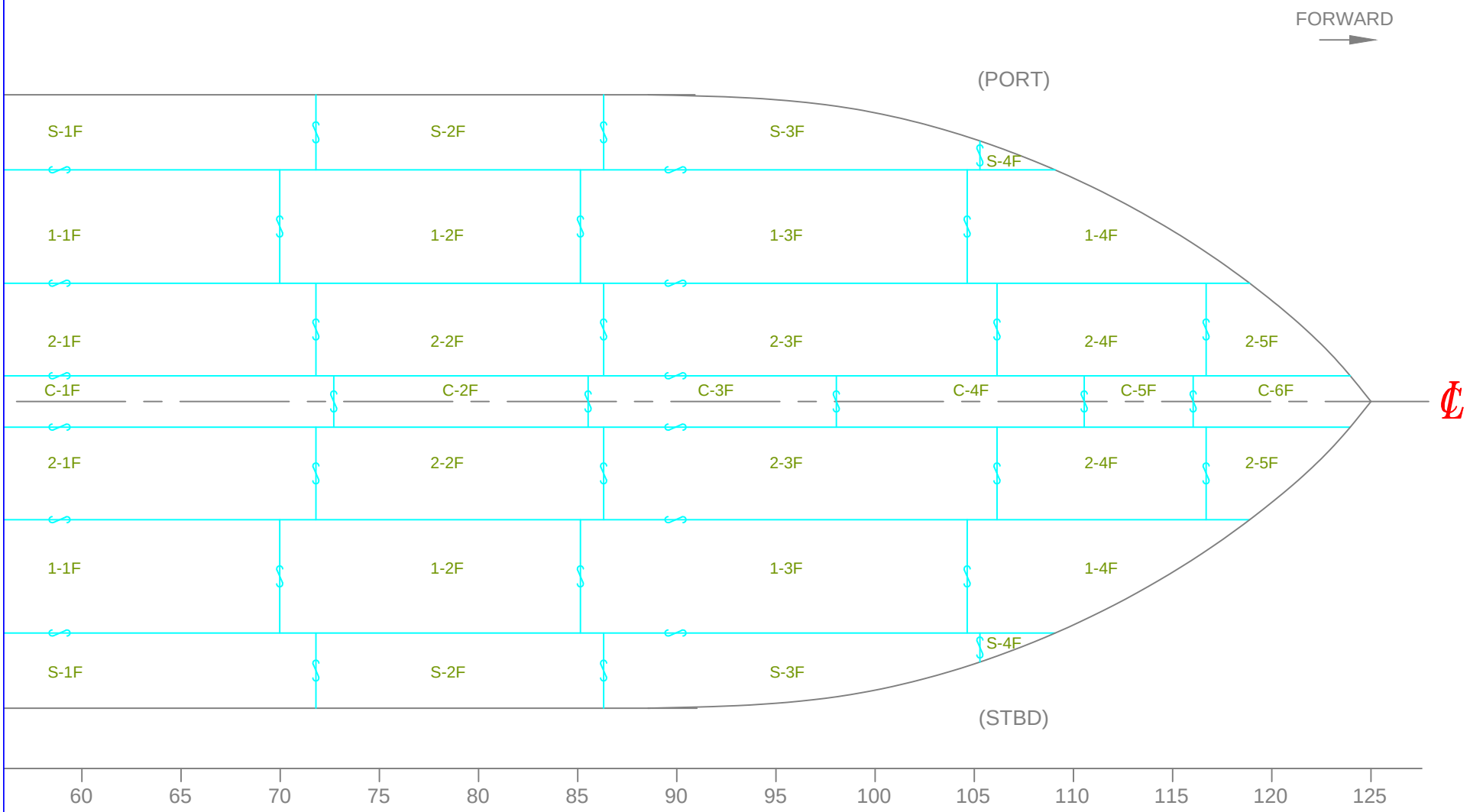

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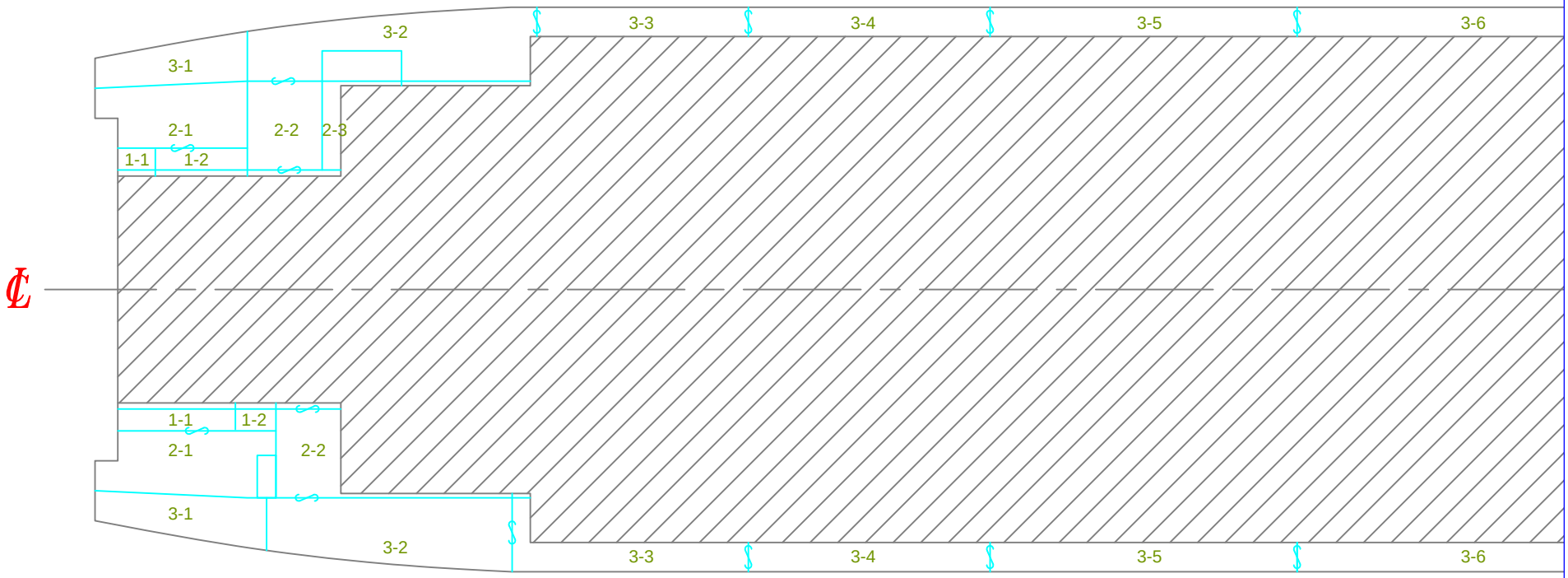

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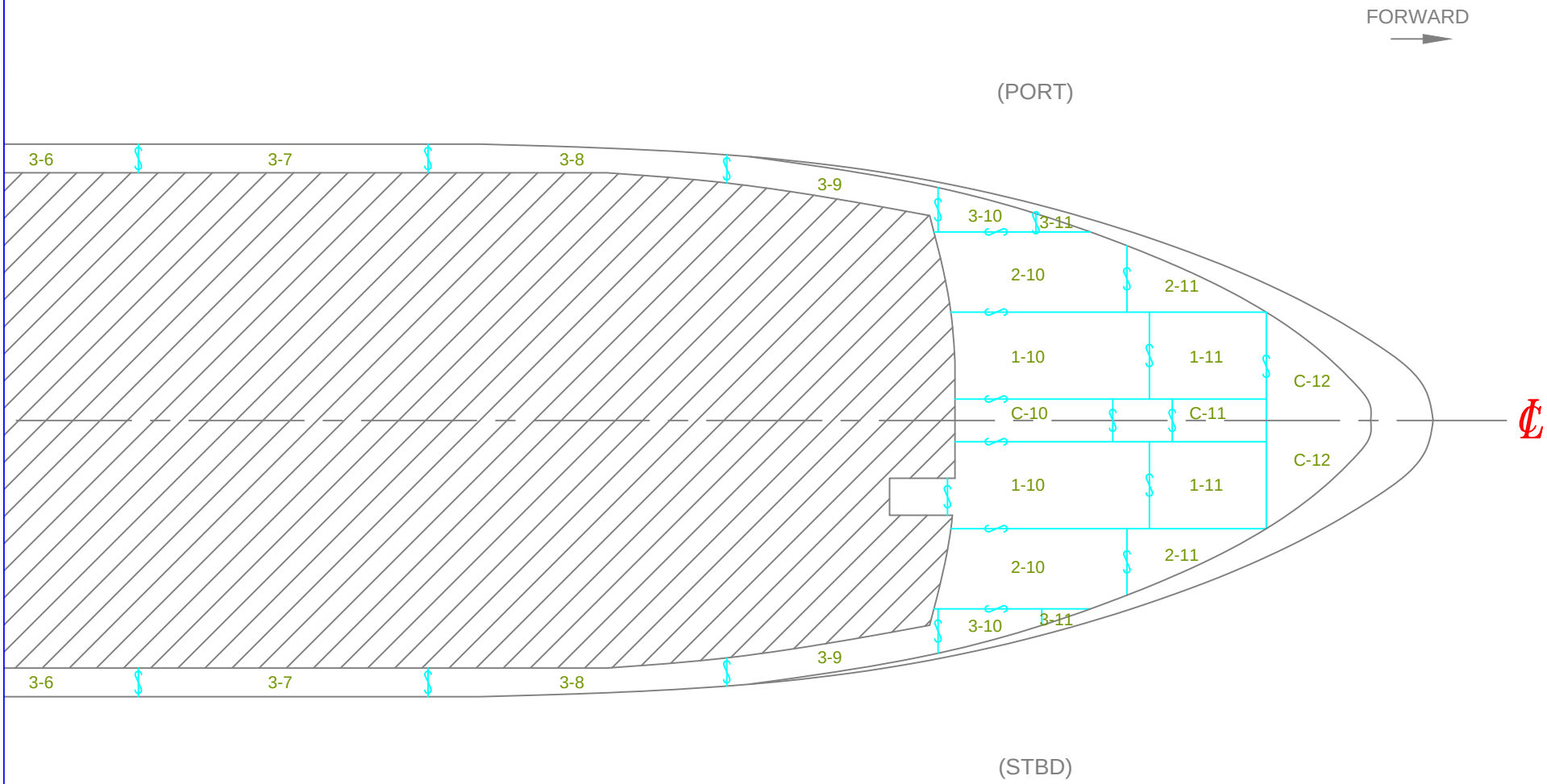

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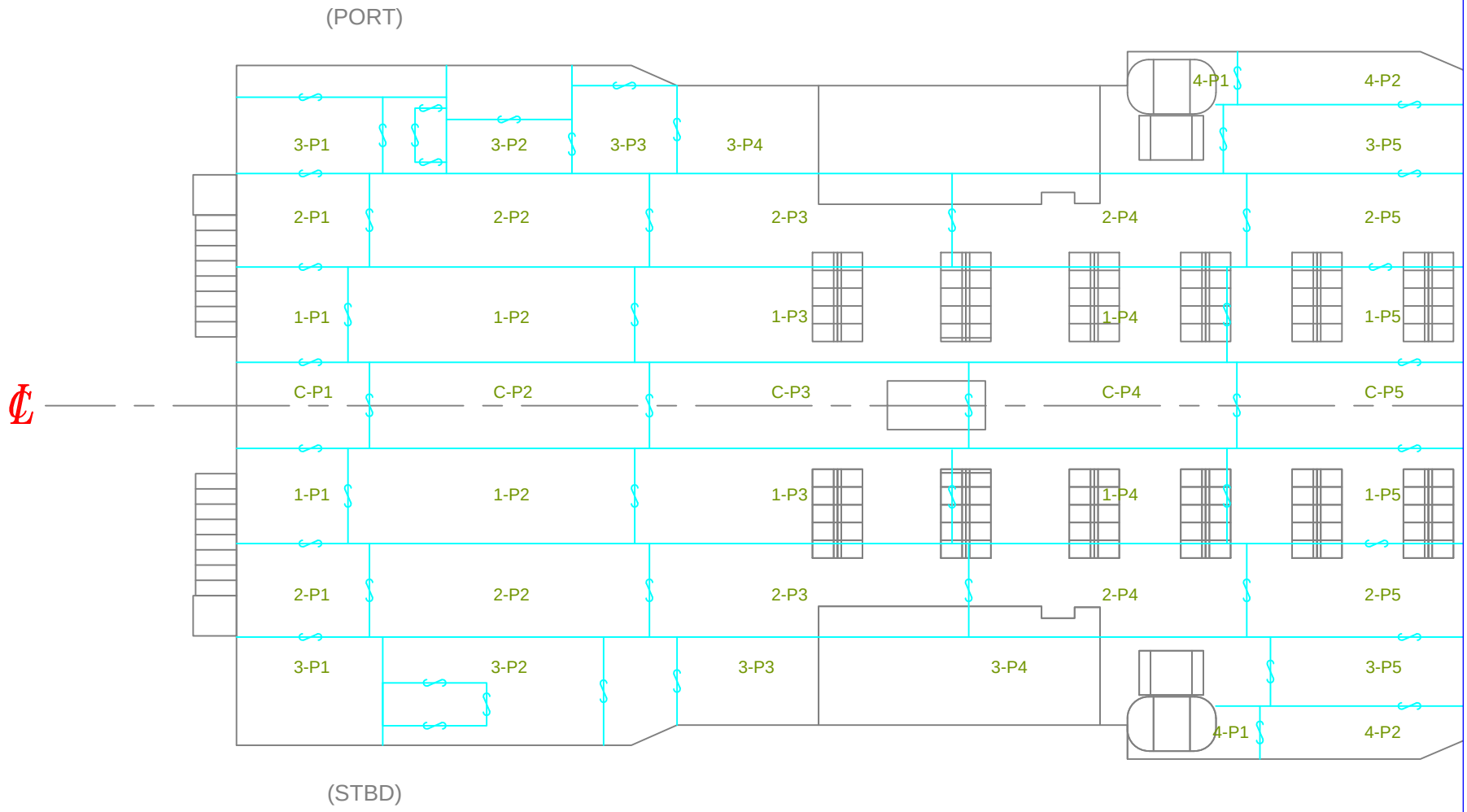

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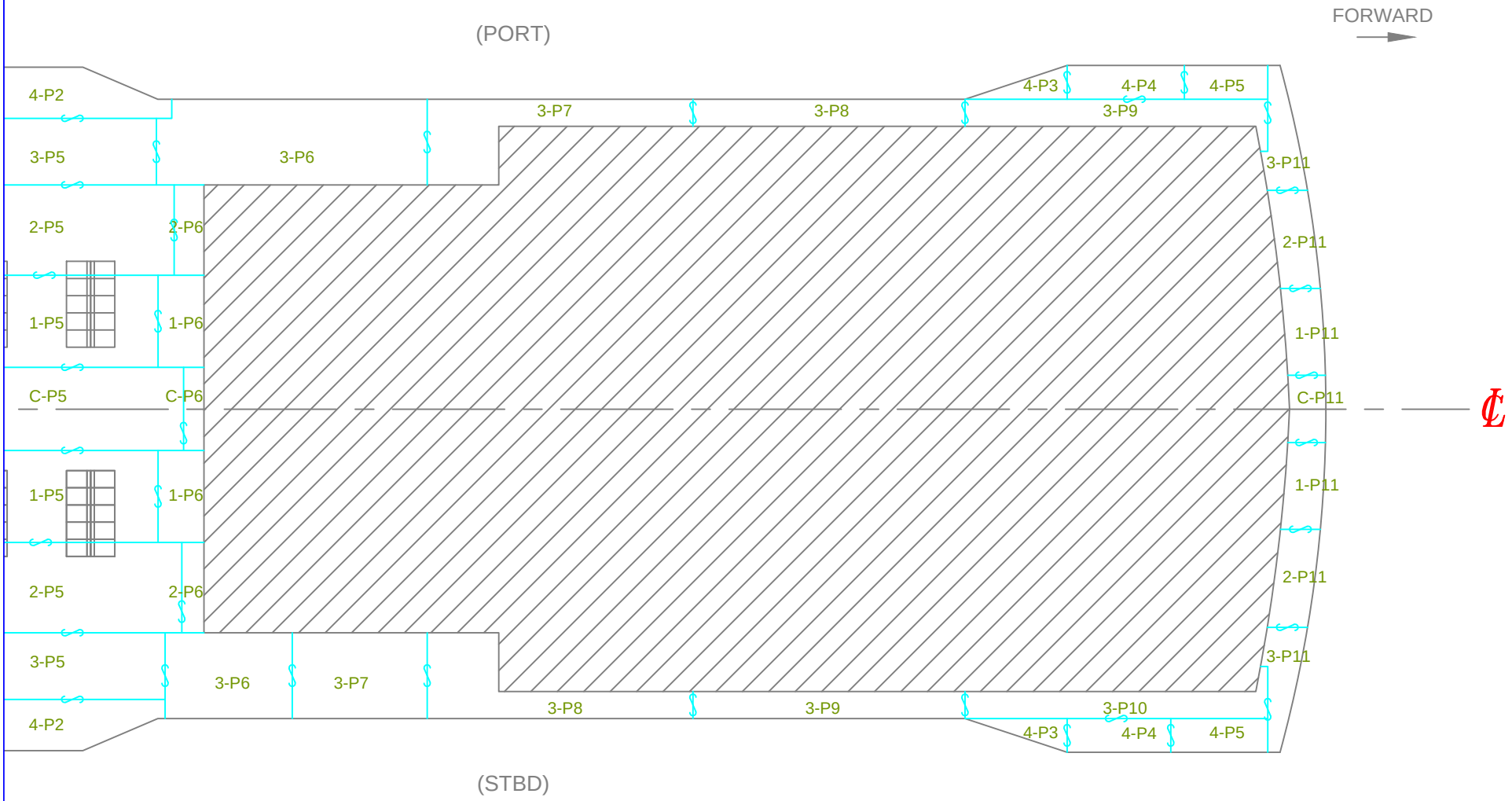

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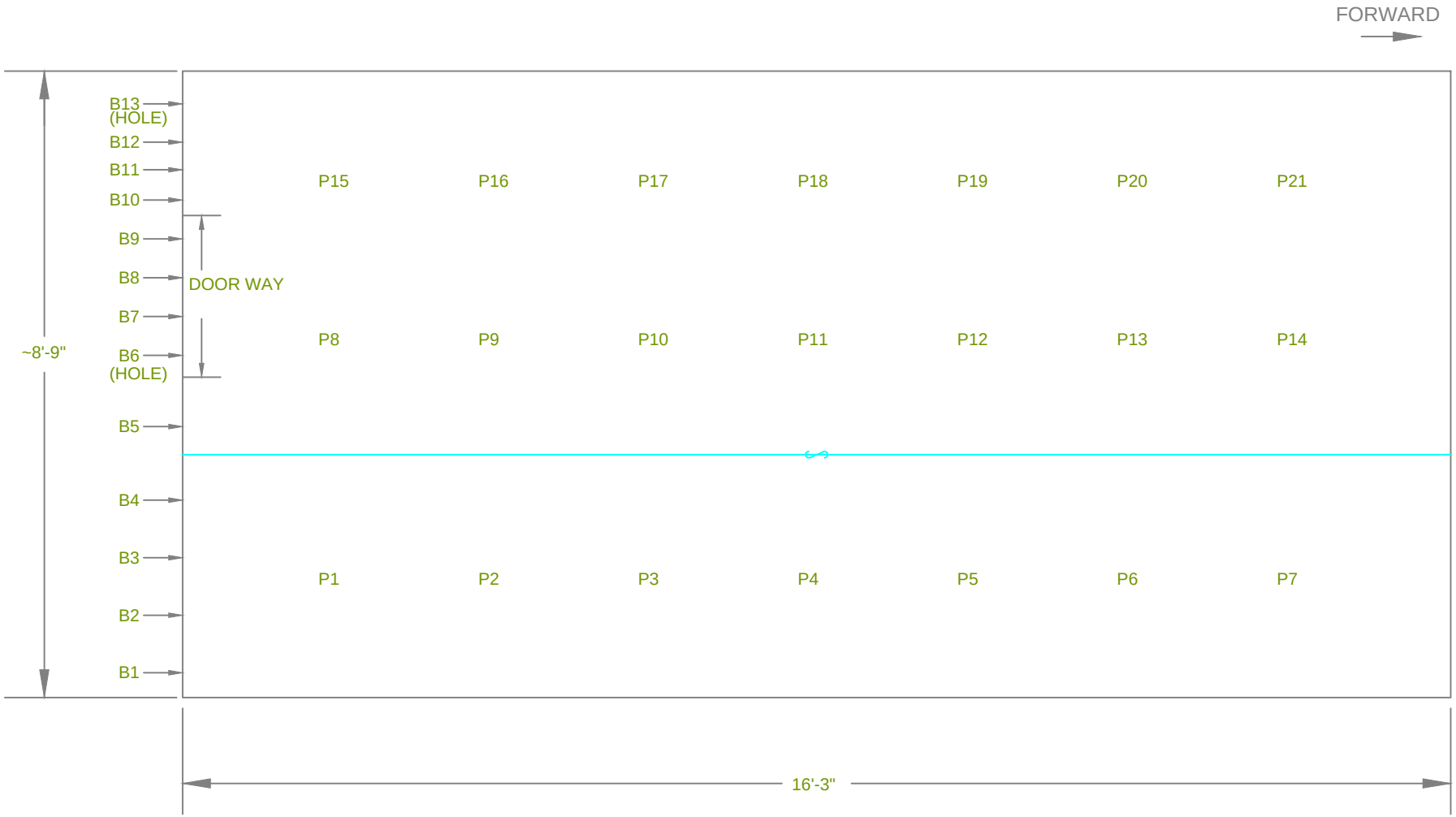

NAVIGATION BRIDGE DECK #5
A/C ROOM #2
FLOOR & LOWER BULKHEAD READINGS

CLIENT: BC FERRIES

PROJECT: NORTH SEA WOLF

TITLE: NAVIGATION BRIDGE DECK #5
A/C ROOM #2
FLOOR & LOWER BULKHEAD READINGS

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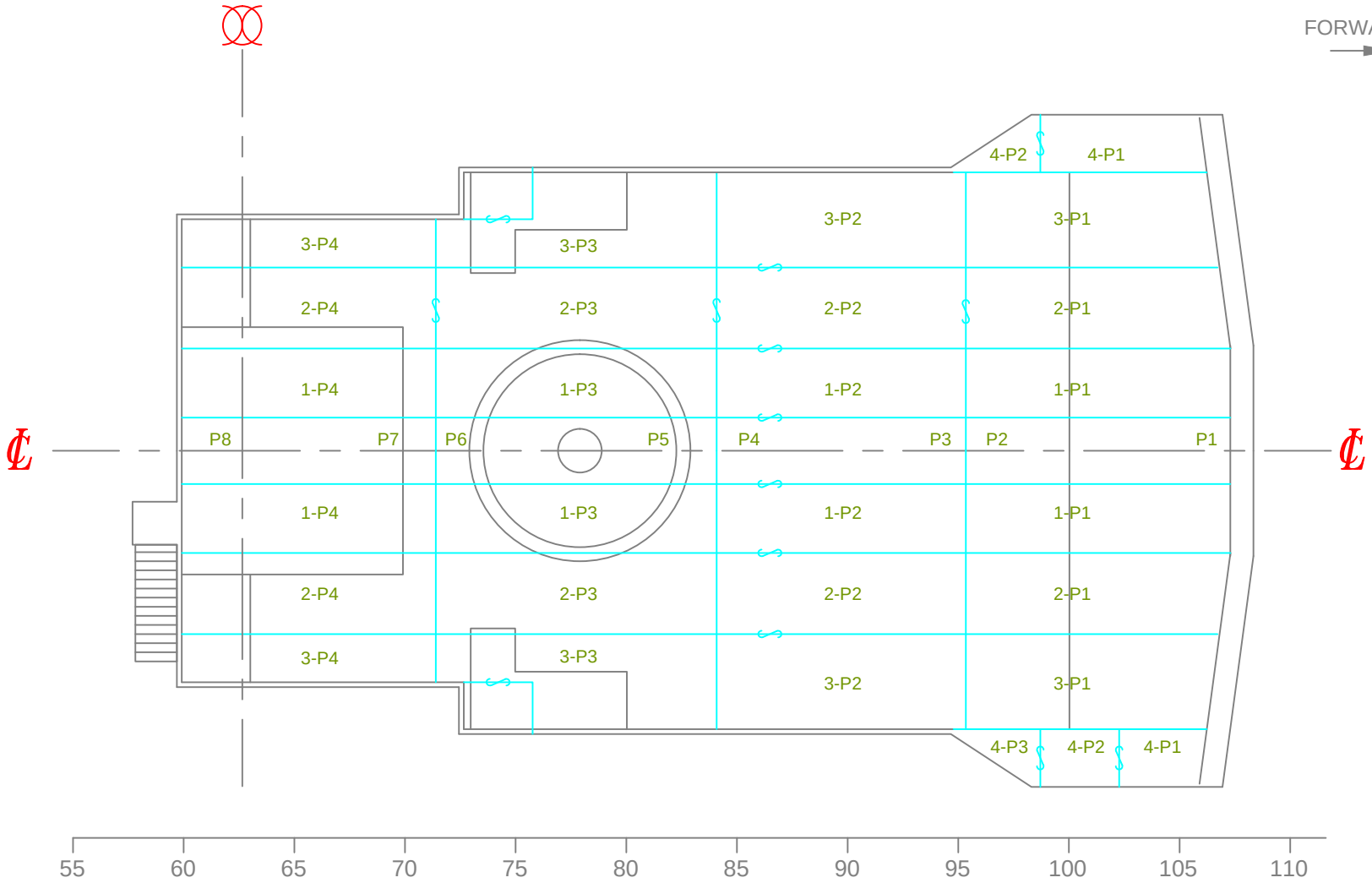

DECK #6- DECK PLATES

CLIENT:	BC FERRIES
PROJECT:	NORTH SEA WOLF
TITLE:	DECK #6- DECK PLATES

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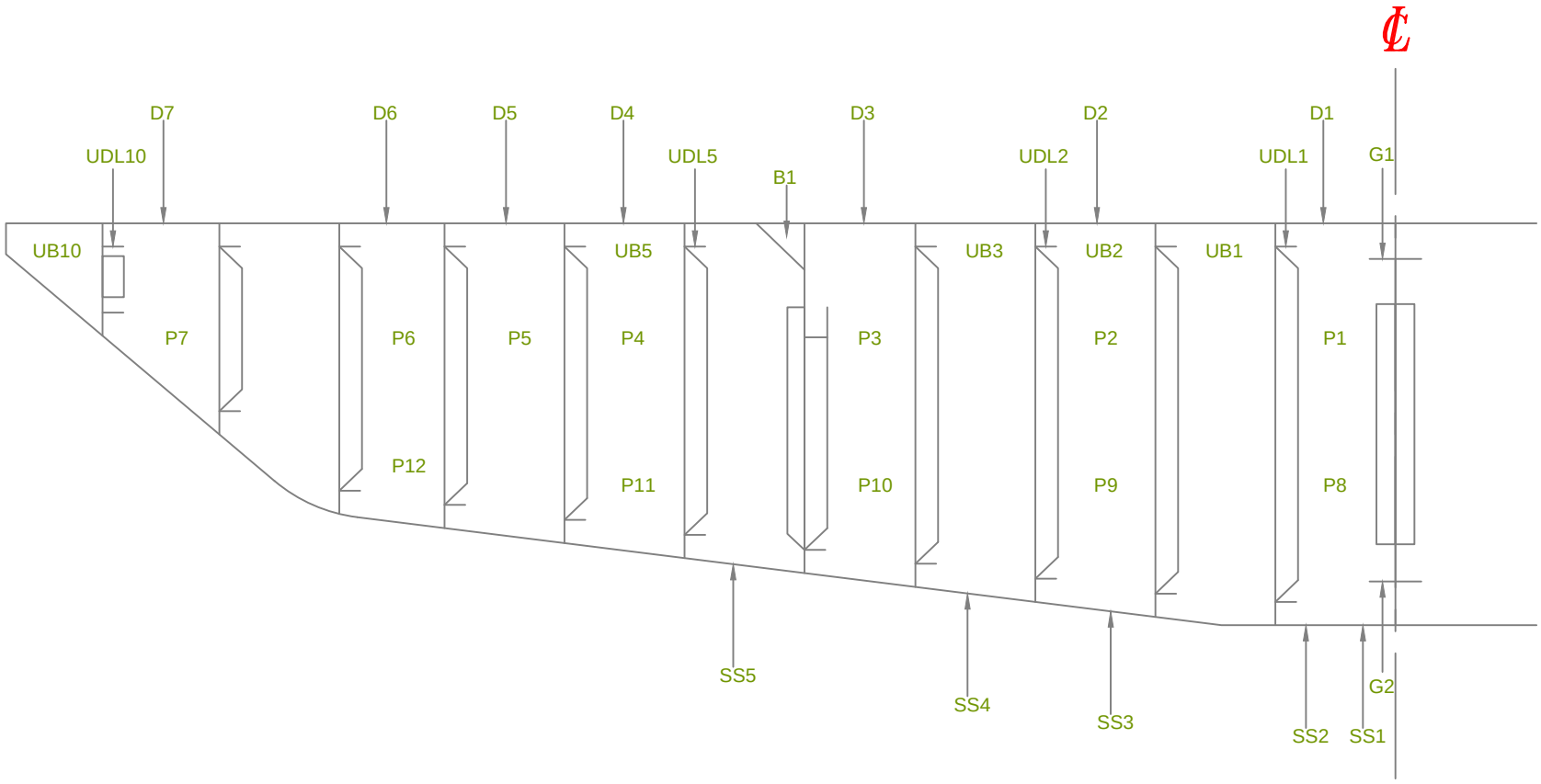

FRAME 10 BULKHEAD

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PROJECT:	NORTH SEA WOLF				
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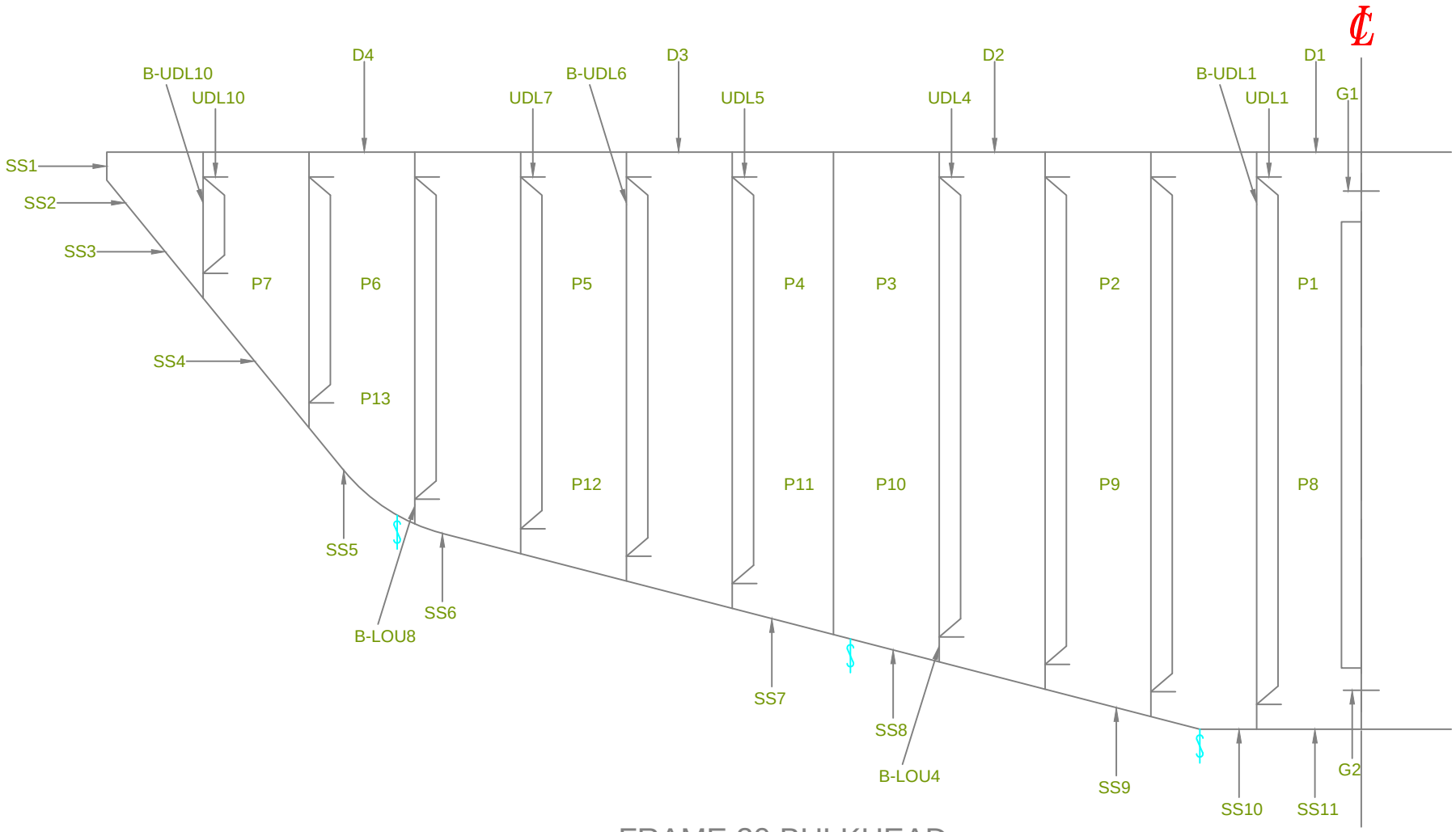

FRAME 20 BULKHEAD

CLIENT:	BC FERRIES
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TITLE:	FRAME 20 BULKHEAD

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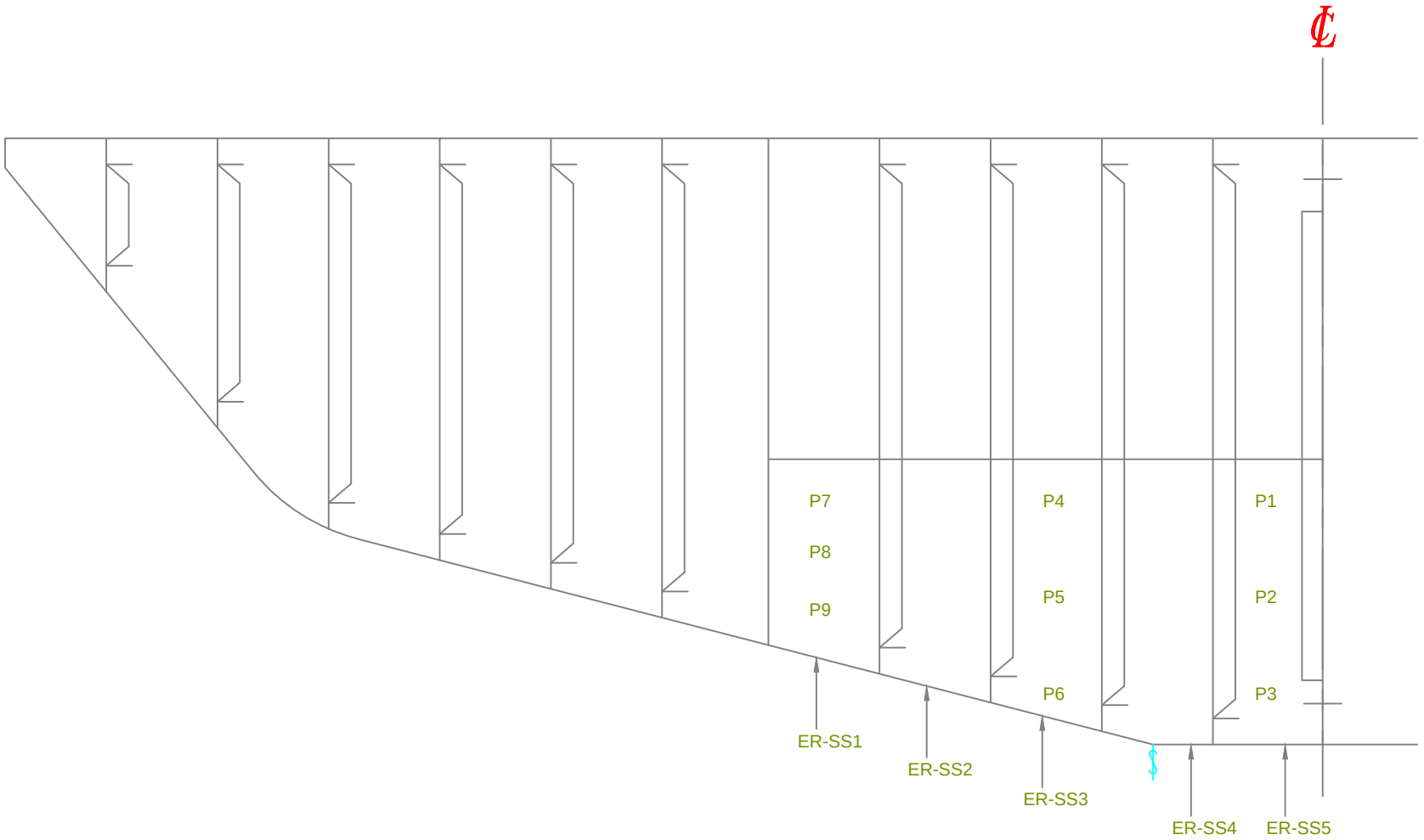

FRAME 20 BULKHEAD
FROM INSIDE E/R

CLIENT:	BC FERRIES
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TITLE:	FRAME 20 BULKHEAD FROM INSIDE E/R

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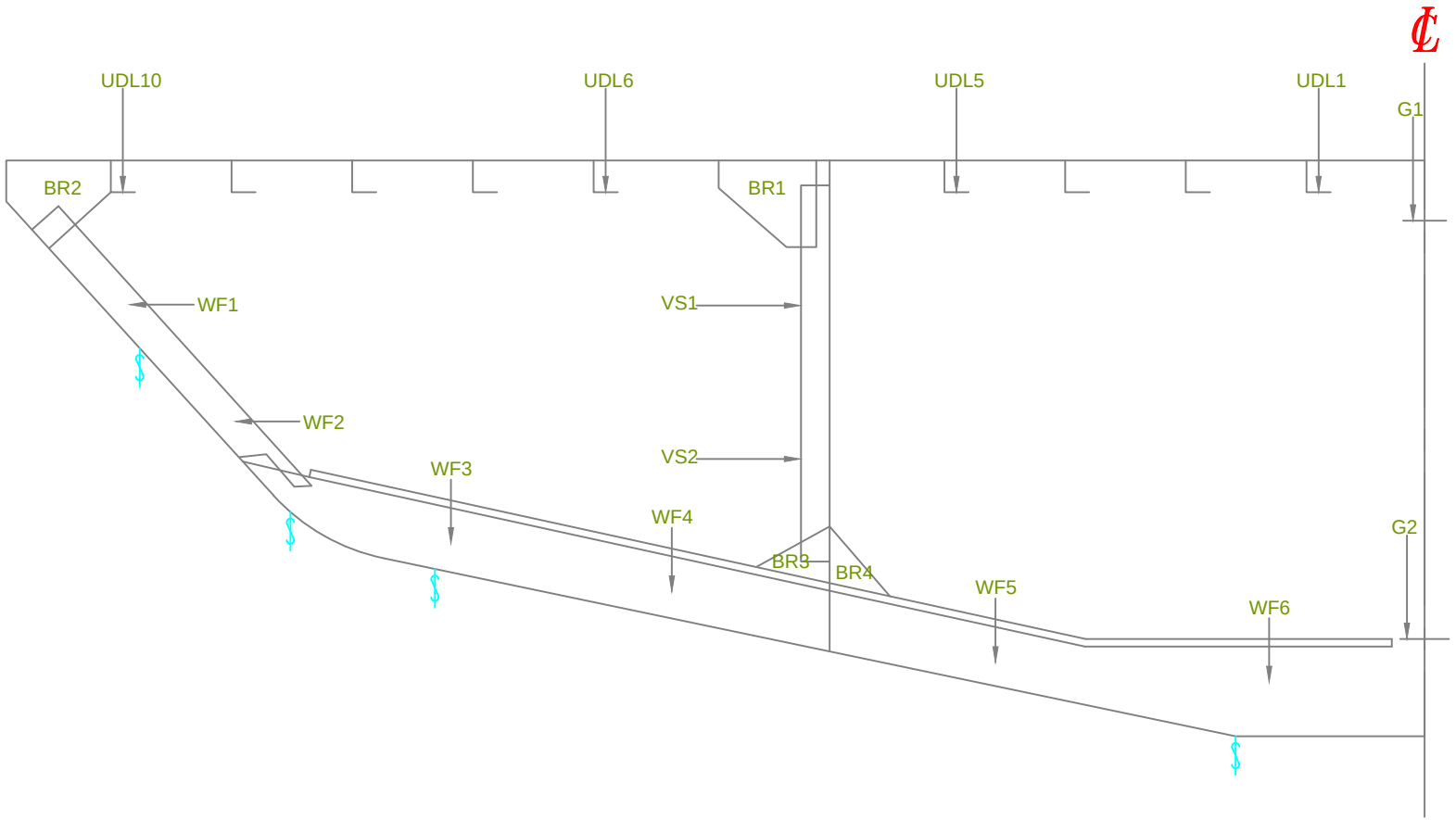

AFT PEAK
TYPICAL FOR FR. 11, 13, 14, 15, 16, 17, 18, 19

CLIENT:	BC FERRIES
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TITLE:	AFT PEAK TYPICAL FOR FR. 11, 13, 14, 15, 16, 17, 18, 19

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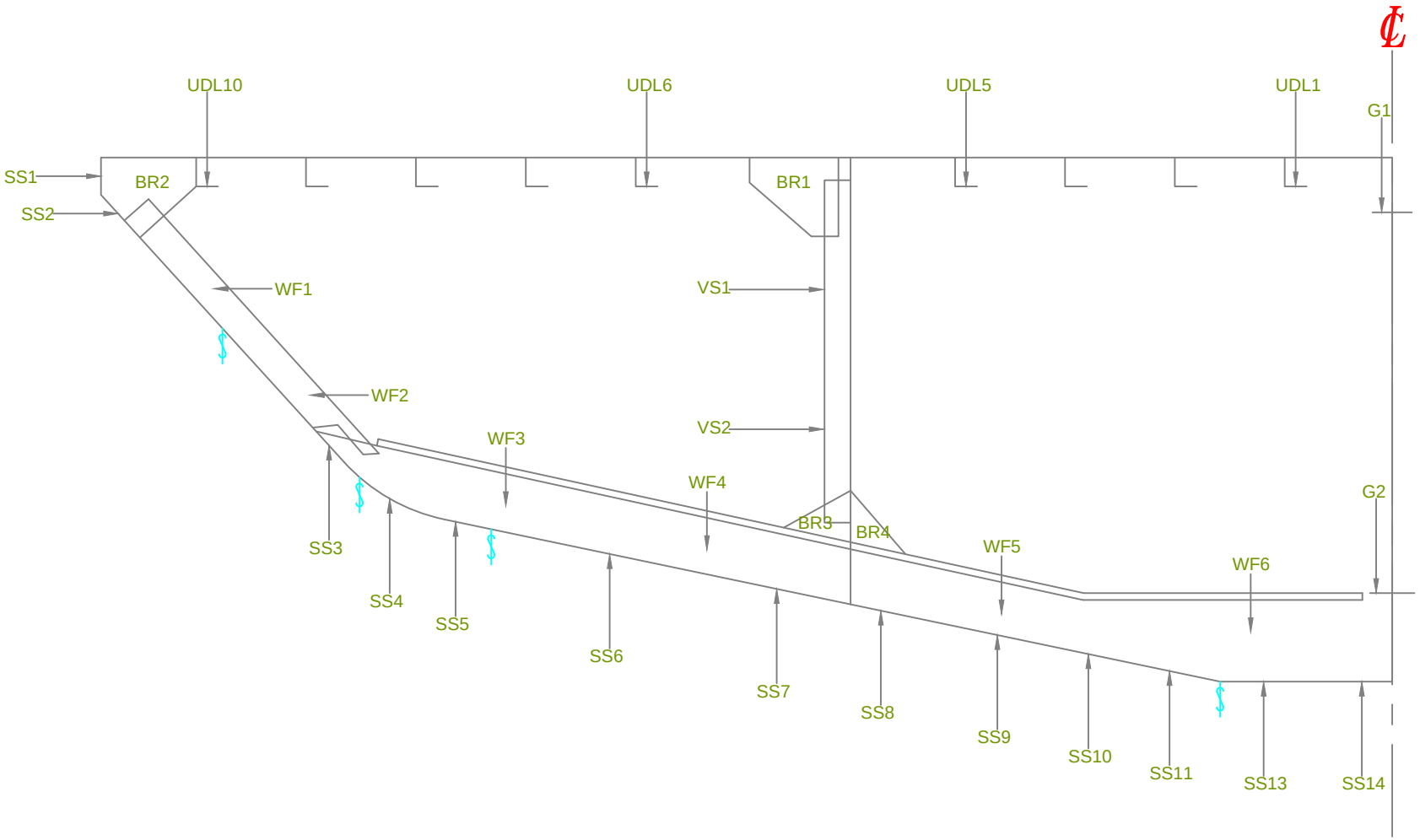

AFT PEAK- FRAME 12

CLIENT:	BC FERRIES
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TITLE:	AFT PEAK- FRAME 12

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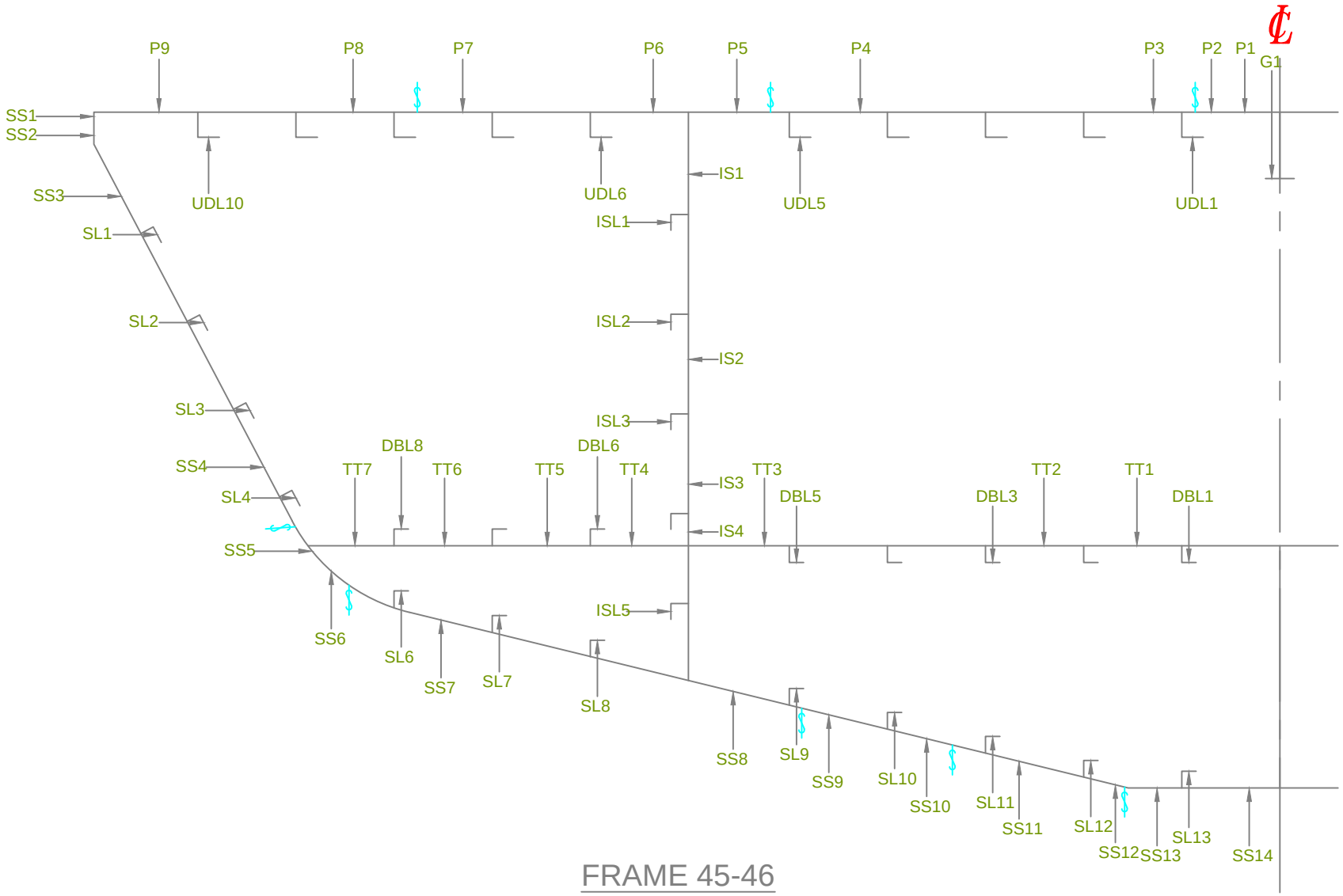

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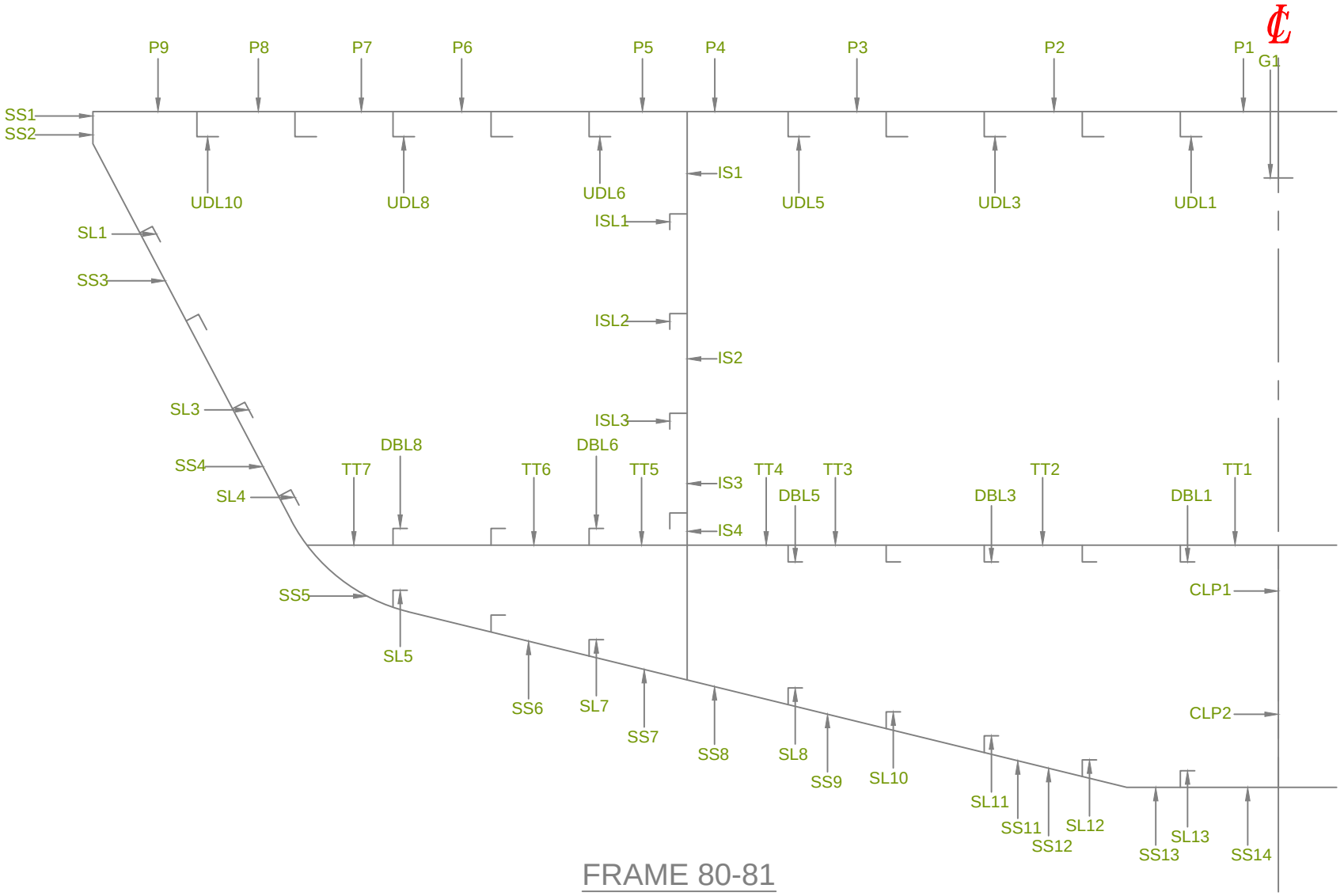

FRAME 80-81

CLIENT:	BC FERRIES
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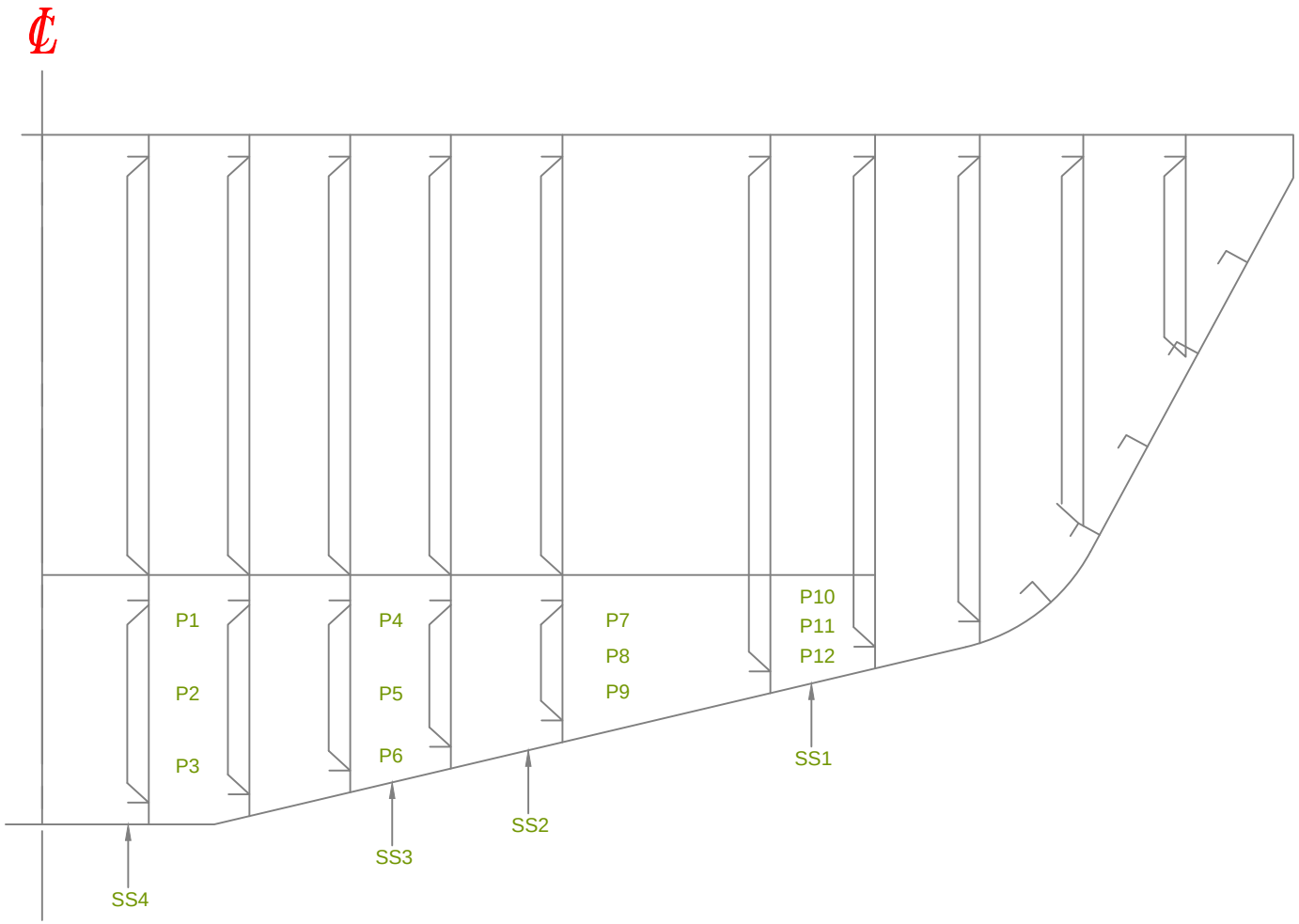
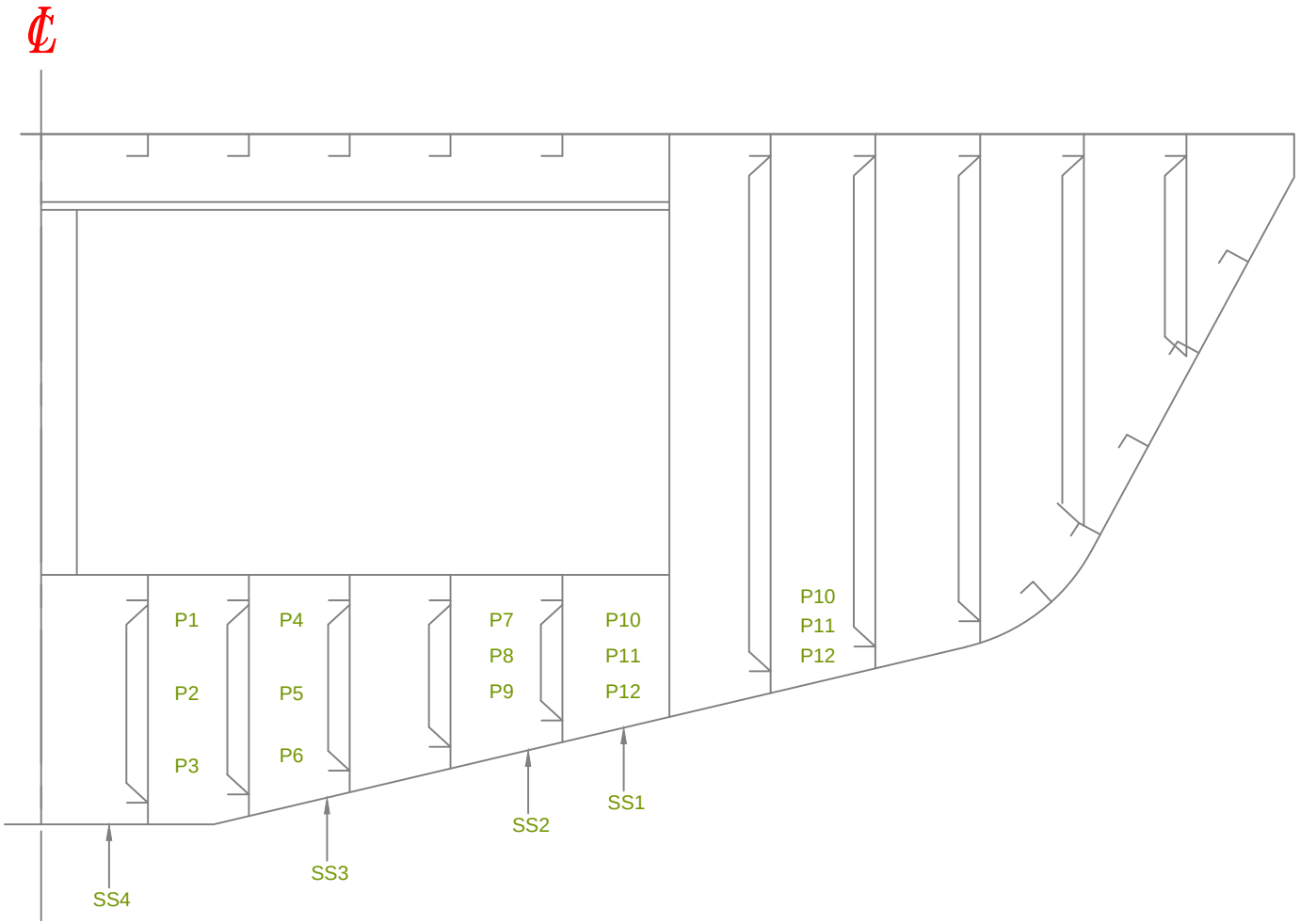


FRAME 40 BULKHEAD

CLIENT:	BC FERRIES
PROJECT:	NORTH SEA WOLF
TITLE:	FRAME 40 BULKHEAD

ELANDER INSPECTION LTD.
NONDESTRUCTIVE TESTING AND INSPECTION SERVICES
#128 - 11800 River Road
Richmond, BC
Canada V6X 1Z7
Phone: (604) 214-1318
Fax: (604) 214-1349
E-mail: *info@elanderinspection.ca*

SCALE: NONE	DRAWN: -	DATE: FEB 20, 18
FILE NO.: E17-075-028	CHECK: -	DATE: -
DWG. NO.: 013	SHEET: 1 OF 1	REV.: -

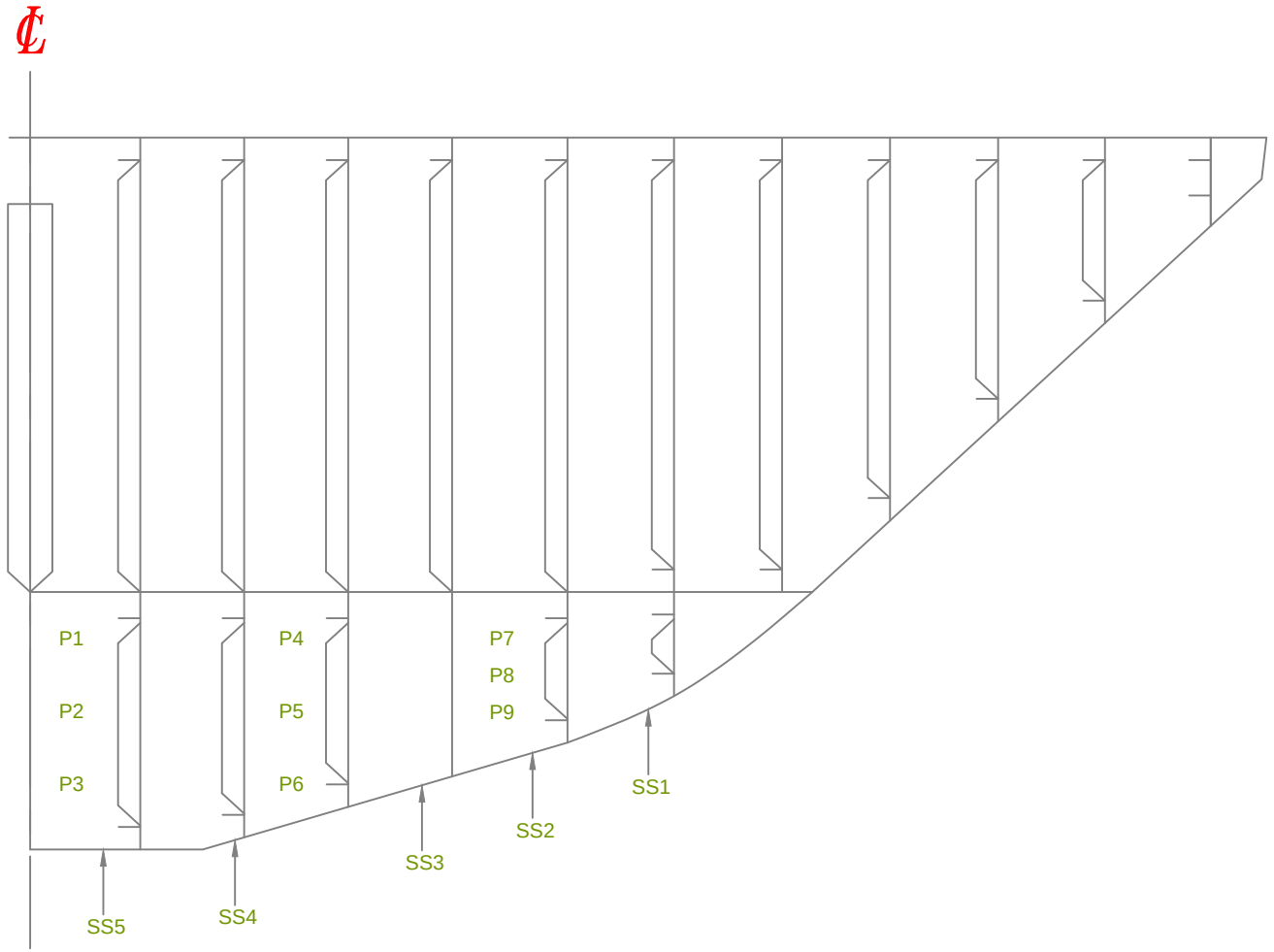


FRAME 50, 70, 85 BULKHEAD

CLIENT:	BC FERRIES
PROJECT:	NORTH SEA WOLF
TITLE:	FRAME 50, 70, 85 BULKHEAD

ELANDER INSPECTION LTD.
NONDESTRUCTIVE TESTING AND INSPECTION SERVICES
#128 - 11800 River Road
Richmond, BC
Canada V6X 1Z7
Phone: (604) 214-1318
Fax: (604) 214-1349
E-mail: info@elanderinspection.ca

SCALE:	NONE	DRAWN:	-	DATE:	FEB 20, 18
FILE NO.:	E17-075-028	CHECK:	-	DATE:	-
DWG. NO.:	014	SHEET:	1 OF 1	REV.:	-

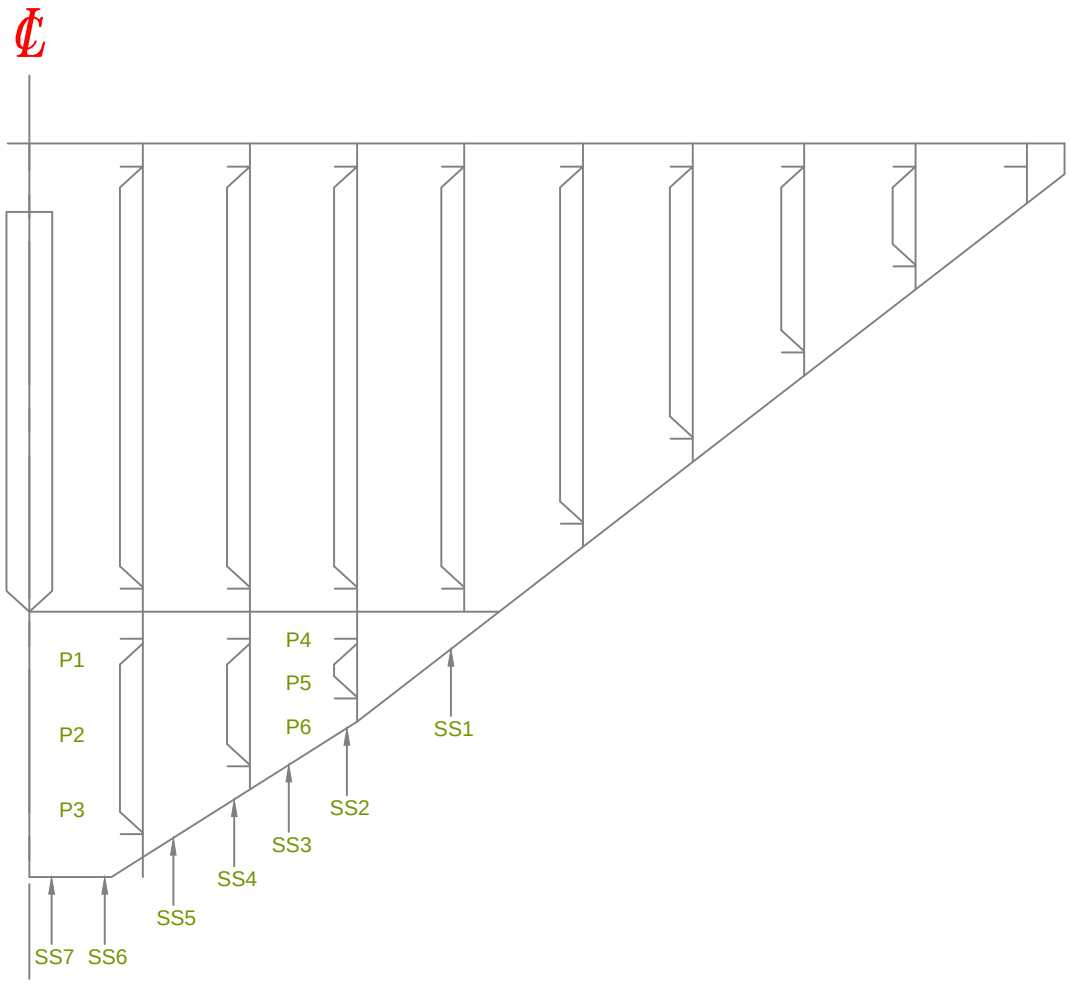


FRAME 95 BULKHEAD

CLIENT:	BC FERRIES
PROJECT:	NORTH SEA WOLF
TITLE:	FRAME 95 BULKHEAD

ELANDER INSPECTION LTD.
NONDESTRUCTIVE TESTING AND INSPECTION SERVICES
#128 - 11800 River Road
Richmond, BC
Canada V6X 1Z7
Phone: (604) 214-1318
Fax: (604) 214-1349
E-mail: info@elanderinspection.ca

SCALE:	NONE	DRAWN:	-	DATE:	FEB 20, 18
FILE NO.:	E17-075-028	CHECK:	-	DATE:	-
DWG. NO.:	015	SHEET:	1 OF 1	REV.:	-



FRAME 105 BULKHEAD

CLIENT:	BC FERRIES
PROJECT:	NORTH SEA WOLF
TITLE:	FRAME 105 BULKHEAD

ELANDER INSPECTION LTD.
NONDESTRUCTIVE TESTING AND INSPECTION SERVICES
#128 - 11800 River Road
Richmond, BC
Canada V6X 1Z7
Phone: (604) 214-1318
Fax: (604) 214-1349
E-mail: info@elanderinspection.ca

SCALE:	NONE	DRAWN:	-	DATE:	FEB 20, 18
FILE NO.:	E17-075-028	CHECK:	-	DATE:	-
DWG. NO.:	016	SHEET:	1 OF 1	REV.:	-

General Particulars

Ship Particulars

Flag	: CANADA	**Port of Registry**	: VICTORIA
ESP Ship	: No	**Ship Type**	: RO-RO/Passenger Ship
Rule Length [m]	: 75	**Gross Tons**	: 2,679
Deadweight (t)	: 353	**Date of Build**	: 01 February 2000

Survey Details

Classification Society	: LR - Lloyd's Register	**Place of Measurement**	: ESQUIMALT
First Date of Measurement	: 15 January 2018	**Last Date of Measurement**	: 23 January 2018
Survey Type	: SSIV	**Rule Type**	: Non-CSR
Ship Category	: Category 2	**Details of Measurement Equipment**	: Panmetrics 38DL+ SN: 171472265 Recal 22-04-2018
Job Status	:		

TM Company Details

Name of Company Performing Thickness Measurement	: ELANDER INSPECTION LTD.		
Thickness Measurement Company certified by	: LLOYD'S REGISTER	**Certificate Number**	: MNDE/2015/6871
Certificate Valid From	: 26 June 2015	**Certificate Valid To**	: 26 June 2018

Authorisation

TM Operator's Details	Attending Surveyor's Details	Authorising Surveyor's Details
Name: Emile Dehard	**Name:**	**Name:**
Signature:	**Signature:**	**Signature:**
Stamp:	**Stamp:**	**Stamp:**

Notes

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM Forms / Sketches

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Deck Plating - Main Deck Plating

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	Stringer

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd														
4th Fwd	S4F	12	30	8.4	12	0	0		12	0	0		0	
3rd Fwd	S3F	12	30	8.4	11.8	0.2	1.67		11.8	0.2	1.67		1.67	
2nd Fwd	S2F	12	30	8.4	11.7	0.3	2.5		11.8	0.2	1.67		2.08	
1st Fwd	S1F	12	30	8.4	11.8	0.2	1.67		11.9	0.1	0.83		1.25	
Amidships														no midship strake
1st Aft	S1A	12	30	8.4	11.8	0.2	1.67		11.9	0.1	0.83		1.25	
2nd Aft	S2A	12	30	8.4	11.8	0.2	1.67		11.7	0.3	2.5		2.08	
3rd Aft	S3A	12	30	8.4	11.7	0.3	2.5		11.8	0.2	1.67		2.08	
4th Aft	S4A	12	30	8.4	12.5	0	0		12.5	0	0		0	
5th Aft	S5A	12	30	8.4	12.6	0	0		12.6	0	0		0	
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	Stringer

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd														
4th Fwd	S4F	12	30	8.4	12	0	0		12	0	0		0	
3rd Fwd	S3F	12	30	8.4	11.8	0.2	1.67		11.8	0.2	1.67		1.67	
2nd Fwd	S2F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
1st Fwd	S1F	12	30	8.4	11.7	0.3	2.5		11.8	0.2	1.67		2.08	
Amidships														no midship strake
1st Aft	S1A	12	30	8.4	11.8	0.2	1.67		11.8	0.2	1.67		1.67	
2nd Aft	S2A	12	30	8.4	11.2	0.8	6.67		11.3	0.7	5.83		6.25	
3rd Aft	S3A	12	30	8.4	11.5	0.5	4.17		11.4	0.6	5		4.58	
4th Aft	S4A	12	30	8.4	12.5	0	0		12.4	0	0		0	
5th Aft	S5A	12	30	8.4	12.3	0	0		12.3	0	0		0	
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	1st Inboard of stringer plate

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd														
4th Fwd	1-4F	12	30	8.4	11.9	0.1	0.83		12	0	0		0.42	
3rd Fwd	1-3F	12	30	8.4	12	0	0		11.9	0.1	0.83		0.42	
2nd Fwd	1-2F	12	30	8.4	12.1	0	0		12	0	0		0	
1st Fwd	1-1F	12	30	8.4	12	0	0		11.9	0.1	0.83		0.42	
Amidships														
1st Aft	1-1A	12	30	8.4	12	0	0		12	0	0		0	
2nd Aft	1-2A	12	30	8.4	11.9	0.1	0.83		12	0	0		0.42	
3rd Aft	1-3A	12	30	8.4	12	0	0		11.6	0.4	3.33		1.67	
4th Aft	1-4A	12	30	8.4	12.5	0	0		12.5	0	0		0	
5th Aft	1-5A	12	30	8.4	12.6	0	0		12.6	0	0		0	
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	1st Inboard of stringer plate

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd														
4th Fwd	1-4F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
3rd Fwd	1-3F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
2nd Fwd	1-2F	12	30	8.4	11.7	0.3	2.5		11.9	0.1	0.83		1.67	
1st Fwd	1-1F	12	30	8.4	12	0	0		11.9	0.1	0.83		0.42	
Amidships														
1st Aft	1-1A	12	30	8.4	11.9	0.1	0.83		12	0	0		0.42	
2nd Aft	1-2A	12	30	8.4	11.7	0.3	2.5		11.5	0.5	4.17		3.33	
3rd Aft	1-3A	12	30	8.4	11.7	0.3	2.5		11.9	0.1	0.83		1.67	
4th Aft	1-4A	12	30	8.4	12.4	0	0		12.3	0	0		0	
5th Aft	1-5A	12	30	8.4	12.1	0	0		12.2	0	0		0	
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	2nd Inboard from Stringer Plate

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd	2-5F	12	30	8.4	11.4	0.6	5		11.9	0.1	0.83		2.92	
4th Fwd	2-4F	12	30	8.4	11.9	0.1	0.83		11.8	0.2	1.67		1.25	
3rd Fwd	2-3F	12	30	8.4	11.8	0.2	1.67		11.8	0.2	1.67		1.67	
2nd Fwd	2-2F	12	30	8.4	12	0	0		12	0	0		0	
1st Fwd	2-1F	12	30	8.4	11.8	0.2	1.67		11.9	0.1	0.83		1.25	
Amidships														
1st Aft	2-1A	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
2nd Aft	2-2A	12	30	8.4	11.8	0.2	1.67		10.5	1.5	12.5		7.08	
3rd Aft	2-3A	12	30	8.4	11.9	0.1	0.83		12	0	0		0.42	
4th Aft	2-4A	12	30	8.4	12.5	0	0		12.4	0	0		0	
5th Aft	2-5A	12	30	8.4	12.6	0	0		12.6	0	0		0	
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	2nd Inboard from Stringer Plate

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd	2-5F	12	30	8.4	11.7	0.3	2.5		12	0	0		1.25	
4th Fwd	2-4F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
3rd Fwd	2-3F	12	30	8.4	11.8	0.2	1.67		11.9	0.1	0.83		1.25	
2nd Fwd	2-2F	12	30	8.4	11.9	0.1	0.83		11.7	0.3	2.5		1.67	
1st Fwd	2-1F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
Amidships														
1st Aft	2-1A	12	30	8.4	11.9	0.1	0.83		11.8	0.2	1.67		1.25	
2nd Aft	2-2A	12	30	8.4	12	0	0		11.7	0.3	2.5		1.25	
3rd Aft	2-3A	12	30	8.4	11.8	0.2	1.67		12	0	0		0.83	
4th Aft	2-4A	12	30	8.4	12.5	0	0		12.5	0	0		0	
5th Aft	2-5A	12	30	8.4	12.5	0	0		12.6	0	0		0	
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	Center Strake

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd	C-6F	12	30	8.4	11.4	0.6	5		11.6	0.4	3.33		4.17	
5th Fwd	C-5F	12	30	8.4	11.3	0.7	5.83		11.8	0.2	1.67		3.75	
4th Fwd	C-4F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
3rd Fwd	C-3F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
2nd Fwd	C-2F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
1st Fwd	C-1F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
Amidships	C-C	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
1st Aft	C-1A	12	30	8.4	11.8	0.2	1.67		11.7	0.3	2.5		2.08	
2nd Aft	C-2A	12	30	8.4	11.7	0.3	2.5		11.7	0.3	2.5		2.5	
3rd Aft	C-3A	12	30	8.4	11.9	0.1	0.83		11.8	0.2	1.67		1.25	
4th Aft	C-4A	12	30	8.4	11.8	0.2	1.67		11.2	0.8	6.67		4.17	
5th Aft														
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Main Deck Plating
Strake Position :	Center Strake

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd	C-6F	12	30	8.4	11.4	0.6	5		11.6	0.4	3.33		4.17	
5th Fwd	C-5F	12	30	8.4	11.3	0.7	5.83		11.8	0.2	1.67		3.75	
4th Fwd	C-4F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
3rd Fwd	C-3F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
2nd Fwd	C-2F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
1st Fwd	C-1F	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
Amidships	C-C	12	30	8.4	11.9	0.1	0.83		11.9	0.1	0.83		0.83	
1st Aft	C-1A	12	30	8.4	11.8	0.2	1.67		11.7	0.3	2.5		2.08	
2nd Aft	C-2A	12	30	8.4	11.7	0.3	2.5		11.7	0.3	2.5		2.5	
3rd Aft	C-3A	12	30	8.4	11.9	0.1	0.83		11.8	0.2	1.67		1.25	
4th Aft	C-4A	12	30	8.4	11.8	0.2	1.67		11.2	0.8	6.67		4.17	
5th Aft														
6th Aft														
7th Aft														
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Transverse Sections - Transverse Section No. 1

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 1
Zone :	Deck Zone
Frame No. :	Frame No. 45

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#5WingTank	UDL Girder, Web	G1	10	25	7.5		8.9	1.1	11		8.9	1.1	11		
#5WingTank	UDL Girder, Flg.	G1	20	25	15		19.8	0.2	1		19.8	0.2	1		
#5WingTank	Underdeck Long., Web	UDL1	10	25	7.5		11.7	0	0		11.9	0	0		
#5WingTank	Underdeck Long., Flg.	UDL1	10	25	7.5		11.5	0	0		11.4	0	0		
#5WingTank	Underdeck Long., Web	UDL2	10	25	7.5		11.6	0	0		11.7	0	0		
#5WingTank	Underdeck Long., Flg.	UDL2	10	25	7.5		11.2	0	0		11.1	0	0		
#5WingTank	Underdeck Long., Web	UDL3	10	25	7.5		11.5	0	0		11.6	0	0		
#5WingTank	Underdeck Long., Flg.	UDL3	10	25	7.5		11.5	0	0		11.3	0	0		
#5WingTank	Underdeck Long., Web	UDL4	10	25	7.5		11.7	0	0		11.7	0	0		
#5WingTank	Underdeck Long., Flg.	UDL4	10	25	7.5		11.6	0	0		11.3	0	0		
#5WingTank	Underdeck Long., Web	UDL5	10	25	7.5		11.8	0	0		11.9	0	0		
#5WingTank	Underdeck Long., Flg.	UDL5	10	25	7.5		11.5	0	0		11.8	0	0		
#5WingTank	Underdeck Long., Web	UDL6	10	25	7.5		11.9	0	0		11.8	0	0		
#5WingTank	Underdeck Long., Flg.	UDL6	10	25	7.5		11.6	0	0		11.4	0	0		
#5WingTank	Underdeck Long., Web	UDL7	10	25	7.5		11.8	0	0		12	0	0		
#5WingTank	Underdeck Long., Flg.	UDL7	10	25	7.5		11.7	0	0		11.6	0	0		
#5WingTank	Underdeck Long., Web	UDL8	10	25	7.5		11.9	0	0		11.8	0	0		
#5WingTank	Underdeck Long., Flg.	UDL8	10	25	7.5		11.8	0	0		12.1	0	0		
#5WingTank	Underdeck Long., Web	UDL9	10	25	7.5		12	0	0		11.9	0	0		
#5WingTank	Underdeck Long., Flg.	UDL9	10	25	7.5		11.8	0	0		11.4	0	0		
#5WingTank	Underdeck Long., Web	UDL10	10	25	7.5		12	0	0		11.8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 1
Zone :	Deck Zone
Frame No. :	Frame No. 45

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#5WingTank	Underdeck Long., Flg.	UDL10	8	25	6		11.7	0	0		11.7	0	0		
#5WingTank	Side Shell, Sheer Strake	SS1	8	30	5.6		7.7	0.3	3.75		7.2	0.8	10		
#5WingTank	Side Shell, Sheer Strake	SS2	8	30	5.6		7.6	0.4	5		7.3	0.7	8.75		
#5WingTank	Car Deck Plates, Centre Plate	P1	12	30	8.4		11.7	0.3	2.5		11.3	0.7	5.83		
#5WingTank	Car Deck Plates, Centre Plate	P2	12	30	8.4		11.8	0.2	1.67		11.4	0.6	5		
#5WingTank	Car Deck Plates, Plate	P3	12	30	8.4		11.5	0.5	4.17		11.6	0.4	3.33		
#5WingTank	Car Deck Plates, Plate	P4	12	30	8.4		11.7	0.3	2.5		11.8	0.2	1.67		
#5WingTank	Car Deck Plates, Plate	P5	12	30	8.4		11.7	0.3	2.5		11.8	0.2	1.67		
#5WingTank	Car Deck Plates, Plate	P6	12	30	8.4		11	1	8.33		12.1	0	0		
#5WingTank	Car Deck Plates, Plate	P7	12	30	8.4		11.9	0.1	0.83		12.1	0	0		
#5WingTank	Car Deck Plates, Plate	P8	12	30	8.4		11.8	0.2	1.67		11.8	0.2	1.67		
#5WingTank	Car Deck Plates, Plate	P9	12	30	8.4		11.8	0.2	1.67		11.8	0.2	1.67		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 1
Zone :	Neutral Axis Zone
Frame No. :	Frame No. 45

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#5WINGTANK	Inner Side, Plate	IS1	7	30	4.9		6.7	0.3	4.29		6.7	0.3	4.29		
#5WINGTANK	Inner Side, Plate	IS2	7	30	4.9		6.8	0.2	2.86		6.7	0.3	4.29		
#5WINGTANK	Inner Side, Plate	IS3	7	30	4.9		6.7	0.3	4.29		6.6	0.4	5.71		
#5WINGTANK	Inner Side, Long. Stiff., Web	ISL1	8	30	5.6		7.8	0.2	2.5		6.6	1.4	17.5		
#5WINGTANK	Inner Side, Long. Stiff., Flg.	ISL1	8	25	6		7.7	0.3	3.75		7.6	0.4	5		
#5WINGTANK	Inner Side, Long. Stiff., Web	ISL2	8	25	6		7.6	0.4	5		7.6	0.4	5		
#5WINGTANK	Inner Side, Long. Stiff., Flg.	ISL2	8	25	6		7.4	0.6	7.5		7.7	0.3	3.75		
#5WINGTANK	Inner Side, Long. Stiff., Web	ISL3	8	25	6		7.7	0.3	3.75		7.3	0.7	8.75		
#5WINGTANK	Inner Side, Long. Stiff., Flg.	ISL3	8	25	6		7.6	0.4	5		7.7	0.3	3.75		
#5WINGTANK	Inner Side, Long. Stiff., Web	ISL4	8	25	6		7.6	0.4	5		7.6	0.4	5		
#5WINGTANK	Inner Side, Long. Stiff., Flg.	ISL4	8	25	6		7.6	0.4	5		7.6	0.4	5		
#5WINGTANK	Side Shell, Plate	SS3	8	30	5.6		8.1	0	0		8	0	0		
#5WINGTANK	Side Shell, Plate	SS4	8	30	5.6		8	0	0		7.9	0.1	1.25		
#5WINGTANK	Side Shell, Long. Web	SSL1	10	25	7.5		10	0	0		10.1	0	0		
#5WINGTANK	Side Shell, Long. Flg.	SSL1	10	25	7.5		10	0	0		10.1	0	0		
#5WINGTANK	Side Shell, Long. Web	SSL2	10	25	7.5		10	0	0		10.1	0	0		
#5WINGTANK	Side Shell, Long. Flg.	SSL2	10	25	7.5		9.9	0.1	1		10.1	0	0		
#5WINGTANK	Side Shell, Long. Web	SSL3	10	25	7.5		10	0	0		10.1	0	0		
#5WINGTANK	Side Shell, Long. Flg.	SSL3	10	25	7.5		9.9	0.1	1		10.1	0	0		
#5WINGTANK	Side Shell, Long. Web	SSL4	10	25	7.5		9.9	0.1	1		9.7	0.3	3		
#5WINGTANK	Side Shell, Long. Flg.	SSL4	10	25	7.5		9.9	0.1	1		9.6	0.4	4		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 1
Zone :	Bottom Zone
Frame No. :	Frame No. 45

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#6DB TANK	Long. Stiff., web	DBL-1	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Long. Stiffl, Flg.	DBL-1	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Long. Stiff., web	DBL-2	10	25	7.5		9.9	0.1	1		9.8	0.2	2		
#6DB TANK	Long. Stiffl, Flg.	DBL-2	10	25	7.5		9.9	0.1	1		9.8	0.2	2		
#6DB TANK	Long. Stiff., web	DBL-3	10	25	7.5		9.8	0.2	2		9.9	0.1	1		
#6DB TANK	Long. Stiffl, Flg.	DBL-3	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Long. Stiff., web	DBL-4	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Long. Stiffl, Flg.	DBL-4	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Long. Stiff., web	DBL-5	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Long. Stiffl, Flg.	DBL-5	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#5WINGTANK	Long. Stiff., web	DBL-6	10	25	7.5		9.5	0.5	5		9.5	0.5	5		
#5WINGTANK	Long. Stiffl, Flg.	DBL-6	10	25	7.5		9.5	0.5	5		9.4	0.6	6		
#5WINGTANK	Long. Stiff., web	DBL-7	10	25	7.5		9.6	0.4	4		9.5	0.5	5		
#5WINGTANK	Long. Stiffl, Flg.	DBL-7	10	25	7.5		9.5	0.5	5		9.4	0.6	6		
#5WINGTANK	Long. Stiff., web	DBL-8	10	25	7.5		9.4	0.6	6		9.7	0.3	3		
#5WINGTANK	Long. Stiffl, Flg.	DBL-8	10	25	7.5		9.4	0.6	6		9.5	0.5	5		
#5WINGTANK	Tank Top, Plate	TT-1	8	30	5.6		7.2	0.8	10		7	1	12.5		
#5WINGTANK	Tank Top, Plate	TT-2	8	30	5.6		7.3	0.7	8.75		7.9	0.1	1.25		
#5WINGTANK	Tank Top, Plate	TT-3	8	30	5.6		7.4	0.6	7.5		8	0	0		
#5WINGTANK	Tank Top, Plate	TT-4	8	30	5.6		7.6	0.4	5		7.6	0.4	5		
#5WINGTANK	Tank Top, Plate	TT-5	8	30	5.6		7.6	0.4	5		7.6	0.4	5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 1
Zone :	Bottom Zone
Frame No. :	Frame No. 45

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#5WINGTANK	Tank Top, Plate	TT-6	8	30	5.6		7.6	0.4	5		7.6	0.4	5		
#5WINGTANK	Tank Top, Plate	TT-7	8	30	5.6		7.7	0.3	3.75		7.6	0.4	5		
#6DB TANK	Side Shell Long., Web	SSL-5	10	25	7.5		9.8	0.2	2		9.9	0.1	1		
#6DB TANK	Sige Shell Long., Flg.	SSL-5	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Side Shell Long., Web	SSL-6	10	25	7.5		9.8	0.2	2		9.8	0.2	2		
#6DB TANK	Sige Shell Long., Flg.	SSL-6	10	25	7.5		9.8	0.2	2		9.9	0.1	1		
#6DB TANK	Side Shell Long., Web	SSL-7	10	25	7.5		9.8	0.2	2		9.9	0.1	1		
#6DB TANK	Sige Shell Long., Flg.	SSL-7	10	25	7.5		9.8	0.2	2		9.8	0.2	2		
#6DB TANK	Side Shell Long., Web	SSL-8	10	25	7.5		9.9	0.1	1		10	0	0		
#6DB TANK	Sige Shell Long., Flg.	SSL-8	10	25	7.5		10	0	0		10	0	0		
#6DB TANK	Side Shell Long., Web	SSL-9	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Sige Shell Long., Flg.	SSL-9	10	25	7.5		9.9	0.1	1		9.8	0.2	2		
#6DB TANK	Side Shell Long., Web	SSL-10	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Sige Shell Long., Flg.	SSL-10	10	25	7.5		10	0	0		9.9	0.1	1		
#6DB TANK	Side Shell Long., Web	SSL-11	10	25	7.5		9.9	0.1	1		9.8	0.2	2		
#6DB TANK	Sige Shell Long., Flg.	SSL-11	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#6DB TANK	Side Shell Long., Web	SSL-12	10	25	7.5		9.9	0.1	1		9.7	0.3	3		
#6DB TANK	Sige Shell Long., Flg.	SSL-12	10	25	7.5		9.9	0.1	1		9.7	0.3	3		
#6DB TANK	Side Shell Long., Web	SSL-13	10	25	7.5		11.6	0	0		11.6	0	0		
#6DB TANK	Sige Shell Long., Flg.	SSL-13	10	25	7.5		11.6	0	0		11.5	0	0		
#6DB TANK	Side Shell, Plate	SS-5	8	30	5.6		7.6	0.4	5		7.6	0.4	5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 1
Zone :	Bottom Zone
Frame No. :	Frame No. 45

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#6DB TANK	Side Shell, Plate	SS-6	8	30	5.6		7.6	0.4	5		7.7	0.3	3.75		
#6DB TANK	Side Shell, Plate	SS-7	8	30	5.6		7.8	0.2	2.5		8	0	0		
#6DB TANK	Side Shell, Plate	SS-8	8	30	5.6		7.8	0.2	2.5		7.9	0.1	1.25		
#6DB TANK	Side Shell, Plate	SS-9	8	30	5.6		7.8	0.2	2.5		7.7	0.3	3.75		
#6DB TANK	Side Shell, Plate	SS-10	8	30	5.6		7.8	0.2	2.5		7.7	0.3	3.75		
#6DB TANK	Side Shell, Plate	SS-11	9	30	6.3		9.7	0	0		9.6	0	0		
#6DB TANK	Side Shell, Plate	SS-12	9	30	6.3		9.8	0	0		9.2	0	0		
#6DB TANK	Side Shell, Plate	SS-13	12	30	8.4		11	1	8.33		11.2	0.8	6.67		
#6DB TANK	Side Shell, Plate	SS-14	12	30	8.4		11.1	0.9	7.5		11.3	0.7	5.83		
#6DB TANK	Center Line, Plate, Upper	CLP-1	10	25	7.5		9.8	0.2	2		9.8	0.2	2		
#6DB TANK	Center Line, Plate, Lower	CLP-2	10	25	7.5		9.7	0.3	3		9.7	0.3	3		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Transverse Sections - Transverse Section No. 2

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 2
Zone :	Deck Zone
Frame No. :	Frame No. 80

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#3WingTank	UDL Girder, Web	G1	10	25	7.5		9.6	0.4	4		9.6	0.4	4		
#3WingTank	UDL Girder, Flg.	G1	20	25	15		19.9	0.1	0.5		19.9	0.1	0.5		
#3WingTank	Underdeck Long., Web	UDL1	10	25	7.5		11.9	0	0		11.9	0	0		
#3WingTank	Underdeck Long., Flg.	UDL1	10	25	7.5		11.9	0	0		11.9	0	0		
#3WingTank	Underdeck Long., Web	UDL2	10	25	7.5		11.7	0	0		11.9	0	0		
#3WingTank	Underdeck Long., Flg.	UDL2	10	25	7.5		11.8	0	0		11.8	0	0		
#3WingTank	Underdeck Long., Web	UDL3	10	25	7.5		11.6	0	0		11.8	0	0		
#3WingTank	Underdeck Long., Flg.	UDL3	10	25	7.5		11.5	0	0		11.8	0	0		
#3WingTank	Underdeck Long., Web	UDL4	10	25	7.5		11.4	0	0		11.9	0	0		
#3WingTank	Underdeck Long., Flg.	UDL4	10	25	7.5		11.3	0	0		11.8	0	0		
#3WingTank	Underdeck Long., Web	UDL5	10	25	7.5		11.4	0	0		11.9	0	0		
#3WingTank	Underdeck Long., Flg.	UDL5	10	25	7.5		11.7	0	0		11.9	0	0		
#3WingTank	Underdeck Long., Web	UDL6	10	25	7.5		12.3	0	0		12.8	0	0		
#3WingTank	Underdeck Long., Flg.	UDL6	10	25	7.5		12.3	0	0		12.5	0	0		
#3WingTank	Underdeck Long., Web	UDL7	10	25	7.5		12.6	0	0		12.8	0	0		
#3WingTank	Underdeck Long., Flg.	UDL7	10	25	7.5		12.5	0	0		12.6	0	0		
#3WingTank	Underdeck Long., Web	UDL8	10	25	7.5		12.4	0	0		12.1	0	0		
#3WingTank	Underdeck Long., Flg.	UDL8	10	25	7.5		12.4	0	0		12.1	0	0		
#3WingTank	Underdeck Long., Web	UDL9	10	25	7.5		12.4	0	0		12.5	0	0		
#3WingTank	Underdeck Long., Flg.	UDL9	10	25	7.5		12.4	0	0		12.2	0	0		
#3WingTank	Underdeck Long., Web	UDL10	10	25	7.5		12.5	0	0		12.4	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 2
Zone :	Deck Zone
Frame No. :	Frame No. 80

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#3WingTank	Underdeck Long., Flg.	UDL10	8	25	6		12.3	0	0		12.2	0	0		
#3WingTank	Side Shell, Sheer Strake	SS1	8	30	5.6		7.7	0.3	3.75		7.7	0.3	3.75		
#3WingTank	Side Shell, Sheer Strake	SS2	8	30	5.6		7.6	0.4	5		7.7	0.3	3.75		
#3WingTank	Car Deck Plates, Centre Plate	P1	12	30	8.4		11.6	0.4	3.33		11.6	0.4	3.33		
#3WingTank	Car Deck Plates, Centre Plate	P2	12	30	8.4		11.8	0.2	1.67		11.8	0.2	1.67		
#3WingTank	Car Deck Plates, Plate	P3	12	30	8.4		11.7	0.3	2.5		11.7	0.3	2.5		
#3WingTank	Car Deck Plates, Plate	P4	12	30	8.4		11.7	0.3	2.5		11.7	0.3	2.5		
#3WingTank	Car Deck Plates, Plate	P5	12	30	8.4		11.7	0.3	2.5		11.9	0.1	0.83		
#3WingTank	Car Deck Plates, Plate	P6	12	30	8.4		12	0	0		12	0	0		
#3WingTank	Car Deck Plates, Plate	P7	12	30	8.4		11.8	0.2	1.67		12.1	0	0		
#3WingTank	Car Deck Plates, Plate	P8	12	30	8.4		11.8	0.2	1.67		11.9	0.1	0.83		
#3WingTank	Car Deck Plates, Plate	P9	12	30	8.4		11.8	0.2	1.67		11.8	0.2	1.67		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 2
Zone :	Neutral Axis Zone
Frame No. :	Frame No. 80

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#3WINGTANK	Inner Side, Plate	IS1	7	30	4.9		6.8	0.2	2.86		6.8	0.2	2.86		
#3WINGTANK	Inner Side, Plate	IS2	7	30	4.9		6.7	0.3	4.29		6.8	0.2	2.86		
#3WINGTANK	Inner Side, Plate	IS3	7	30	4.9		6.7	0.3	4.29		6.7	0.3	4.29		
#3WINGTANK	Inner Side, Long. Stiff., Web	ISL1	8	30	5.6		7.7	0.3	3.75		7.7	0.3	3.75		
#3WINGTANK	Inner Side, Long. Stiff., Flg.	ISL1	8	25	6		7.6	0.4	5		7.5	0.5	6.25		
#3WINGTANK	Inner Side, Long. Stiff., Web	ISL2	8	25	6		7.7	0.3	3.75		7.7	0.3	3.75		
#3WINGTANK	Inner Side, Long. Stiff., Flg.	ISL2	8	25	6		7.7	0.3	3.75		7.7	0.3	3.75		
#3WINGTANK	Inner Side, Long. Stiff., Web	ISL3	8	25	6		7.6	0.4	5		7.6	0.4	5		
#3WINGTANK	Inner Side, Long. Stiff., Flg.	ISL3	8	25	6		7.6	0.4	5		7.6	0.4	5		
#3WINGTANK	Inner Side, Long. Stiff., Web	ISL4	8	25	6		7.7	0.3	3.75		7.3	0.7	8.75		
#3WINGTANK	Inner Side, Long. Stiff., Flg.	ISL4	8	25	6		7.6	0.4	5		7.2	0.8	10		
#3WINGTANK	Side Shell, Plate	SS3	8	30	5.6		8	0	0		8	0	0		
#3WINGTANK	Side Shell, Plate	SS4	8	30	5.6		7.9	0.1	1.25		8	0	0		
#3WINGTANK	Side Shell, Long. Web	SSL1	10	25	7.5		9.6	0.4	4		9.7	0.3	3		
#3WINGTANK	Side Shell, Long. Flg.	SSL1	10	25	7.5		9.5	0.5	5		9.6	0.4	4		
#3WINGTANK	Side Shell, Long. Web	SSL2	10	25	7.5		9.7	0.3	3		9.8	0.2	2		
#3WINGTANK	Side Shell, Long. Flg.	SSL2	10	25	7.5		9.5	0.5	5		9.6	0.4	4		
#3WINGTANK	Side Shell, Long. Web	SSL3	10	25	7.5		9.6	0.4	4		9.5	0.5	5		
#3WINGTANK	Side Shell, Long. Flg.	SSL3	10	25	7.5		9.6	0.4	4		9.3	0.7	7		
#3WINGTANK	Side Shell, Long. Web	SSL4	10	25	7.5		9.6	0.4	4		9.6	0.4	4		
#3WINGTANK	Side Shell, Long. Flg.	SSL4	10	25	7.5		9.6	0.4	4		9.4	0.6	6		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 2
Zone :	Bottom Zone
Frame No. :	Frame No. 80

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#4DB TANK	Long. Stiff., web	DBL-1	10	25	7.5		9.7	0.3	3		9.5	0.5	5		
#4DB TANK	Long. Stiffl, Flg.	DBL-1	10	25	7.5		9.8	0.2	2		9.6	0.4	4		
#4DB TANK	Long. Stiff., web	DBL-2	10	25	7.5		9.9	0.1	1		9.6	0.4	4		
#4DB TANK	Long. Stiffl, Flg.	DBL-2	10	25	7.5		9.8	0.2	2		9.7	0.3	3		
#4DB TANK	Long. Stiff., web	DBL-3	10	25	7.5		9.9	0.1	1		9.7	0.3	3		
#4DB TANK	Long. Stiffl, Flg.	DBL-3	10	25	7.5		9.9	0.1	1		9.8	0.2	2		
#4DB TANK	Long. Stiff., web	DBL-4	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#4DB TANK	Long. Stiffl, Flg.	DBL-4	10	25	7.5		9.9	0.1	1		9.9	0.1	1		
#4DB TANK	Long. Stiff., web	DBL-5	10	25	7.5		9.9	0.1	1		9.8	0.2	2		
#4DB TANK	Long. Stiffl, Flg.	DBL-5	10	25	7.5		9.8	0.2	2		9.9	0.1	1		
#3WINGTANK	Long. Stiff., web	DBL-6	10	25	7.5		9.7	0.3	3		9.7	0.3	3		
#3WINGTANK	Long. Stiffl, Flg.	DBL-6	10	25	7.5		9.5	0.5	5		9.4	0.6	6		
#3WINGTANK	Long. Stiff., web	DBL-7	10	25	7.5		9.6	0.4	4		9.7	0.3	3		
#3WINGTANK	Long. Stiffl, Flg.	DBL-7	10	25	7.5		9.4	0.6	6		9.4	0.6	6		
#3WINGTANK	Long. Stiff., web	DBL-8	10	25	7.5		9.5	0.5	5		9.6	0.4	4		
#3WINGTANK	Long. Stiffl, Flg.	DBL-8	10	25	7.5		9.4	0.6	6		9.5	0.5	5		
#3WINGTANK	Tank Top, Plate	TT-1	8	30	5.6		7.7	0.3	3.75		7.2	0.8	10		
#3WINGTANK	Tank Top, Plate	TT-2	8	30	5.6		7.7	0.3	3.75		7.3	0.7	8.75		
#3WINGTANK	Tank Top, Plate	TT-3	8	30	5.6		7.6	0.4	5		7.5	0.5	6.25		
#3WINGTANK	Tank Top, Plate	TT-4	8	30	5.6		7.6	0.4	5		7.4	0.6	7.5		
#3WINGTANK	Tank Top, Plate	TT-5	8	30	5.6		7.8	0.2	2.5		7.5	0.5	6.25		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 2
Zone :	Bottom Zone
Frame No. :	Frame No. 80

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#3WINGTANK	Tank Top, Plate	TT-6	8	30	5.6		7.7	0.3	3.75		7.5	0.5	6.25		
#3WINGTANK	Tank Top, Plate	TT-7	8	30	5.6		7.6	0.4	5		7.4	0.6	7.5		
#4DB TANK	Side Shell Long., Bracket Stif	SSL-5	8	25	6		7.7	0.3	3.75		7.7	0.3	3.75		
#4DB TANK	Side Shell Long., Web	SSL-6	10	25	7.5		9.7	0.3	3		9.3	0.7	7		
#4DB TANK	Sige Shell Long., Flg.	SSL-6	10	25	7.5		9.8	0.2	2		9.2	0.8	8		
#4DB TANK	Side Shell Long., Web	SSL-7	10	25	7.5		9.4	0.6	6		9.2	0.8	8		
#4DB TANK	Sige Shell Long., Flg.	SSL-7	10	25	7.5		9.5	0.5	5		9.4	0.6	6		
#4DB TANK	Side Shell Long., Web	SSL-8	10	25	7.5		9.2	0.8	8		9.4	0.6	6		
#4DB TANK	Sige Shell Long., Flg.	SSL-8	10	25	7.5		9.2	0.8	8		9.4	0.6	6		
#4DB TANK	Side Shell Long., Web	SSL-9	10	25	7.5		9.8	0.2	2		9.3	0.7	7		
#4DB TANK	Sige Shell Long., Flg.	SSL-9	10	25	7.5		9.8	0.2	2		9.4	0.6	6		
#4DB TANK	Side Shell Long., Web	SSL-10	10	25	7.5		9.6	0.4	4		9.8	0.2	2		
#4DB TANK	Sige Shell Long., Flg.	SSL-10	10	25	7.5		9.7	0.3	3		9.9	0.1	1		
#4DB TANK	Side Shell Long., Web	SSL-11	10	25	7.5		9.5	0.5	5		9.6	0.4	4		
#4DB TANK	Sige Shell Long., Flg.	SSL-11	10	25	7.5		9.5	0.5	5		9.7	0.3	3		
#4DB TANK	Side Shell Long., Web	SSL-12	10	25	7.5		9.3	0.7	7		9.8	0.2	2		
#4DB TANK	Sige Shell Long., Flg.	SSL-12	10	25	7.5		9.4	0.6	6		9.8	0.2	2		
#4DB TANK	Side Shell Long., Web	SSL-13	10	25	7.5		11.4	0	0		9.5	0.5	5		
#4DB TANK	Sige Shell Long., Flg.	SSL-13	10	25	7.5		11.5	0	0		9.8	0.2	2		
#4DB TANK	Side Shell, Plate	SS-5	8	30	5.6		8	0	0		7.6	0.4	5		
#4DB TANK	Side Shell, Plate	SS-6	8	30	5.6		8.1	0	0		7.7	0.3	3.75		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF | LR/IMO Number : 9212450 | TM Report No : VCR1800005

TM2~3 - Transverse Sections - Deck, Shell, Bottom Plating & Longitudinal Members

Transverse Section :	No. 2
Zone :	Bottom Zone
Frame No. :	Frame No. 80

Tank / Compartment / Space	Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Plate / Profile / Width / Height (mm)	Port Reading				Starboard Reading				Comments
							Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
#4DB TANK	Side Shell, Plate	SS-7	8	30	5.6		7.5	0.5	6.25		7.8	0.2	2.5		
#4DB TANK	Side Shell, Plate	SS-8	8	30	5.6		7.6	0.4	5		7.6	0.4	5		
#4DB TANK	Side Shell, Plate	SS-9	8	30	5.6		7.7	0.3	3.75		7.8	0.2	2.5		
#4DB TANK	Side Shell, Plate	SS-10	8	30	5.6		7.5	0.5	6.25		7.7	0.3	3.75		
#4DB TANK	Side Shell, Plate	SS-11	8	30	5.6		7.6	0.4	5		7.7	0.3	3.75		
#4DB TANK	Side Shell, Plate	SS-12	8	30	5.6		7.8	0.2	2.5		7.8	0.2	2.5		
#4DB TANK	Side Shell, Plate	SS-13	12	30	8.4		11.5	0.5	4.17		11.8	0.2	1.67		
#4DB TANK	Side Shell, Plate	SS-14	12	30	8.4		11.2	0.8	6.67		11.7	0.3	2.5		
#4DB TANK	Center Line, Plate, Upper	CLP-1	10	25	7.5		9.7	0.3	3		9.7	0.3	3		
#4DB TANK	Center Line, Plate, Lower	CLP-2	10	25	7.5		9.3	0.7	7		9.3	0.7	7		

Excessive Diminution | Substantial Corrosion | Renewed As Built | Renewed other than As Built | Missing Reading | Abnormally High Reading | Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Transverse Sections - Transverse Section No. 1

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM8 - Transverse Sections - Longitudinal Strength Assessment

Transverse Section :	No. 1
Frame No. :	Frame No. 45

Area Assessment of Hull Girder Strength

Zone	Actual (cm^2)	Rule (cm^2)	Reduction (%)	Acceptance Criteria (%)
Deck Zone				10
Neutral Axis Zone				15
Bottom Zone				10

● Non-Acceptable

Name of TM Operator: Emile Dehard

Name of LR Attending Surveyor:

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM8 - Transverse Sections - Longitudinal Strength Assessment

Transverse Section :	No. 2
Frame No. :	Frame No. 80

Area Assessment of Hull Girder Strength

Zone	Actual (cm^2)	Rule (cm^2)	Reduction (%)	Acceptance Criteria (%)
Deck Zone				10
Neutral Axis Zone				15
Bottom Zone				10

● Non-Acceptable

Name of TM Operator: Emile Dehard

Name of LR Attending Surveyor:

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Bottom Plating - Bottom Shell Plating

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Bottom Shell Plating
Location of Structure :	Btm Plates in way of Engine Room

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
ER-6th plate below Sheer, Fwd	Fr. 20-24	8	30	5.6	8.1	0	0		8.8	0	0		
ER-6th plate below Sheer, Aft.	Fr. 20-24	8	30	5.6	8.3	0	0		8.7	0	0		
ER-6th plate below Sheer, Fwd.	Fr. 24-38	8	30	5.6	9	0	0		8.9	0	0		
ER-6th plate below Sheer, Aft.	Fr. 24-38	8	30	5.6	9.1	0	0		8.9	0	0		
ER-6th plate below Sheer, Fwd.	Fr. 38-40	8	30	5.6	8.1	0	0		7.9	0.1	1.25		
ER-6th plate below Sheer, Aft.	Fr. 38-40	8	30	5.6	8.9	0	0		7.9	0.1	1.25		
ER-7th plate below Sheer, Fwd.	Fr. 20-24	8	30	5.6	9.5	0	0		9.2	0	0		
ER-7th plate below Sheer, Aft.	Fr. 20-24	8	30	5.6	9.7	0	0		9.2	0	0		
ER-7th plate below Sheer, Fwd.	Fr. 24-40	8	30	5.6	8.8	0	0		9.1	0	0		
ER-7th plate below Sheer, Aft.	Fr. 24-40	8	30	5.6	8.8	0	0		9.7	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

WB Tanks – Transverse Bulkheads - Double Bottom Tank No. 6

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Double Bottom Tank No. 6
Location of Structure :	Frame No. 40
Type of Bulkhead :	Plain Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bhd, Plate	P1	9	25	6.8	8.2	0.8	8.89		8.3	0.7	7.78		
Bhd, Plate	P2	9	25	6.8	8.2	0.8	8.89		8.1	0.9	10		
Bhd, Plate	P3	9	25	6.8	8.3	0.7	7.78		8.2	0.8	8.89		
Bhd, Plate	P4	9	25	6.8	8	1	11.11		8.2	0.8	8.89		
Bhd, Plate	P5	9	25	6.8	8	1	11.11		8.3	0.7	7.78		
Bhd, Plate	P6	8	25	6	7.9	0.1	1.25		8.3	0	0		
Bhd, Plate	P7	9	25	6.8	8	1	11.11		8.2	0.8	8.89		
Bhd, Plate	P8	8	25	6	8	0	0		8.2	0	0		
Bhd, Plate	P9	9	25	6.8	7.9	1.1	12.22		8.2	0.8	8.89		
Bhd, Plate	P10	9	25	6.8	8	1	11.11		8.3	0.7	7.78		
Bhd, Plate	P11	8	25	6	8	0	0		8.3	0	0		
Bhd, Plate	P12	9	25	6.8	7.9	1.1	12.22		8.2	0.8	8.89		
Side Shell, Plate	SS-1	8	30	5.6	8.2	0	0		7.8	0.2	2.5		
Side Shell, Plate	SS-2	8	30	5.6	8.8	0	0		9.1	0	0		
Side Shell, Plate	SS-3	8	30	5.6	8.7	0	0		8.7	0	0		
Side Shell, Plate	SS-4	8	30	5.6	11.4	0	0		12.1	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

WB Tanks – Transverse Bulkheads - Double Bottom Tank No. 5

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Double Bottom Tank No. 5
Location of Structure :	Frame No. 50
Type of Bulkhead :	Plain Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bhd, Plate	P1	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P2	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P3	9	25	6.8	7.3	1.7	18.89		7.2	1.8	20		
Bhd, Plate	P4	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P5	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P6	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P7	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P8	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P9	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P10	9	25	6.8	6.7	2.3	25.56	10	6.8	2.2	24.44	10	
Bhd, Plate	P11	9	25	6.8	6.7	2.3	25.56	10	6.8	2.2	24.44	10	
Bhd, Plate	P12	9	25	6.8	6.7	2.3	25.56	10	6.8	2.2	24.44	10	
Side Shell, Plate	SS-1	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell, Plate	SS-2	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell, Plate	SS-3	8	30	5.6	9.3	0	0		9.2	0	0		
Side Shell, Plate	SS-4	12	30	8.4	11.7	0.3	2.5		11.4	0.6	5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

WB Tanks – Transverse Bulkheads - Double Bottom Tank No. 3

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Double Bottom Tank No. 3
Location of Structure :	Frame No. 85
Type of Bulkhead :	Plain Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bhd, Plate	P1	9	25	6.8	7.7	1.3	14.44		7.7	1.3	14.44		
Bhd, Plate	P2	9	25	6.8	7.6	1.4	15.56		7.7	1.3	14.44		
Bhd, Plate	P3	9	25	6.8	7.1	1.9	21.11	10	7.2	1.8	20	10	
Bhd, Plate	P4	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P5	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P6	9	25	6.8	7.7	1.3	14.44		7.7	1.3	14.44		
Bhd, Plate	P7	9	25	6.8	7.7	1.3	14.44		7.7	1.3	14.44		
Bhd, Plate	P8	9	25	6.8	7.7	1.3	14.44		7.7	1.3	14.44		
Bhd, Plate	P9	9	25	6.8	7.7	1.3	14.44		7.7	1.3	14.44		
Bhd, Plate	P10	9	25	6.8	7.9	1.1	12.22		7.9	1.1	12.22		
Bhd, Plate	P11	9	25	6.8	7.9	1.1	12.22		7.9	1.1	12.22		
Bhd, Plate	P12	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Side Shell, Plate	SS-1	8	30	5.6	8.1	0	0		7.7	0.3	3.75		
Side Shell, Plate	SS-2	8	30	5.6	8.2	0	0		8.1	0	0		
Side Shell, Plate	SS-3	8	30	5.6	8.4	0	0		8.6	0	0		
Side Shell, Plate	SS-4	12	30	8.4	11.9	0.1	0.83		12	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

WB Tanks – Transverse Bulkheads - Double Bottom Tank No. 2

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Double Bottom Tank No. 2
Location of Structure :	Frame No. 95
Type of Bulkhead :	Plain Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bhd, Plate	P1	9	25	6.8	8	1	11.11		8.1	0.9	10		
Bhd, Plate	P2	9	25	6.8	7.8	1.2	13.33		8	1	11.11		
Bhd, Plate	P3	9	25	6.8	7.5	1.5	16.67		7.6	1.4	15.56		
Bhd, Plate	P4	9	25	6.8	8.1	0.9	10		8.3	0.7	7.78		
Bhd, Plate	P5	9	25	6.8	8	1	11.11		8.1	0.9	10		
Bhd, Plate	P6	9	25	6.8	7.4	1.6	17.78		7.5	1.5	16.67		
Bhd, Plate	P7	9	25	6.8	8	1	11.11		8.3	0.7	7.78		
Bhd, Plate	P8	9	25	6.8	8	1	11.11		7.6	1.4	15.56		
Bhd, Plate	P9	9	25	6.8	7.7	1.3	14.44		7.4	1.6	17.78		
Side Shell, Plate	SS-1	8	30	5.6	7.3	0.7	8.75		7.3	0.7	8.75		
Side Shell, Plate	SS-2	8	30	5.6	7.4	0.6	7.5		7.3	0.7	8.75		
Side Shell, Plate	SS-3	8	30	5.6	7.4	0.6	7.5		7.4	0.6	7.5		
Side Shell, Plate	SS-4	8	30	5.6	7.9	0.1	1.25		8	0	0		
Side Shell, Plate	SS-5	12	30	8.4	10.9	1.1	9.17		10.7	1.3	10.83		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

WB Tanks – Transverse Bulkheads - Double Bottom Tank No. 1

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Double Bottom Tank No. 1
Location of Structure :	Frame No. 105
Type of Bulkhead :	Plain Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bhd, Plate	P1	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P2	9	25	6.8	7.8	1.2	13.33		7.7	1.3	14.44		
Bhd, Plate	P3	9	25	6.8	7.6	1.4	15.56		7.5	1.5	16.67		
Bhd, Plate	P4	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P5	9	25	6.8	7.7	1.3	14.44		7.7	1.3	14.44		
Bhd, Plate	P6	9	25	6.8	7.3	1.7	18.89	10	7.2	1.8	20	10	
Side Shell, Plate	SS-1	8	30	5.6	7.6	0.4	5		7.7	0.3	3.75		
Side Shell, Plate	SS-2	8	30	5.6	7.5	0.5	6.25		7.6	0.4	5		
Side Shell, Plate	SS-3	8	30	5.6	7.4	0.6	7.5		7.4	0.6	7.5		
Side Shell, Plate	SS-4	8	30	5.6	6.9	1.1	13.75		6.8	1.2	15		
Side Shell, Plate	SS-5	8	30	5.6	6.8	1.2	15		6.6	1.4	17.5		
Side Shell, Plate	SS-6	12	30	8.4	10	2	16.67		10	2	16.67		
Side Shell, Plate	SS-7	12	30	8.4	10.2	1.8	15		11.2	0.8	6.67		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

WB Tanks – Transverse Bulkheads - Double Bottom Tank No. 4

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Double Bottom Tank No. 4
Location of Structure :	Frame No. 70
Type of Bulkhead :	Plain Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bhd, Plate	P1	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P2	9	25	6.8	7.6	1.4	15.56		7.8	1.2	13.33		
Bhd, Plate	P3	9	25	6.8	7.6	1.4	15.56		6.9	2.1	23.33	10	
Bhd, Plate	P4	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P5	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P6	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P7	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P8	9	25	6.8	7.8	1.2	13.33		7.8	1.2	13.33		
Bhd, Plate	P9	9	25	6.8	7.7	1.3	14.44		7.8	1.2	13.33		
Bhd, Plate	P10	9	25	6.8	7.7	1.3	14.44		6.7	2.3	25.56	10	
Bhd, Plate	P11	9	25	6.8	7.6	1.4	15.56		6.7	2.3	25.56	10	
Bhd, Plate	P12	9	25	6.8	7.4	1.6	17.78		6.7	2.3	25.56	10	
Side Shell, Plate	SS-1	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell, Plate	SS-2	8	30	5.6	7.7	0.3	3.75		7.6	0.4	5		
Side Shell, Plate	SS-3	8	30	5.6	9.1	0	0		9.2	0	0		
Side Shell, Plate	SS-4	12	30	8.4	11.6	0.4	3.33		11.7	0.3	2.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Wind and Water Strakes - Wind and Water Strakes Plating

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Wind and Water Strakes Plating
Strake Position :	2nd below sheer strake

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd		8	30	5.6	7.7	0.3	3.75		7.4	0.6	7.5		5.63	
4th Fwd		8	30	5.6	8	0	0		7.5	0.5	6.25		3.13	
3rd Fwd		8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		2.5	
2nd Fwd		8	30	5.6	7.7	0.3	3.75		7.6	0.4	5		4.38	
1st Fwd		8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		3.13	
Amidships		8	30	5.6	7.9	0.1	1.25		7.6	0.4	5		3.13	
1st Aft		8	30	5.6	7.9	0.1	1.25		7.7	0.3	3.75		2.5	
2nd Aft		8	30	5.6	8.2	0	0		8.1	0	0		0	
3rd Aft		8	30	5.6	8	0	0		7.9	0.1	1.25		0.63	
4th Aft		8	30	5.6	8	0	0		7.8	0.2	2.5		1.25	
5th Aft		8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		1.25	
6th Aft		8	30	5.6	9.8	0	0		9.9	0	0		0	
7th Aft		8	30	5.6	9.7	0	0		9.7	0	0		0	
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Wind and Water Strakes Plating
Strake Position :	2nd below sheer strake

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd		8	30	5.6	7.9	0.1	1.25		8.1	0	0		0.63	
4th Fwd		8	30	5.6	8	0	0		7.4	0.6	7.5		3.75	
3rd Fwd		8	30	5.6	7.6	0.4	5		7.5	0.5	6.25		5.63	
2nd Fwd		8	30	5.6	7.8	0.2	2.5		8.1	0	0		1.25	
1st Fwd		8	30	5.6	8.1	0	0		7.9	0.1	1.25		0.63	
Amidships		8	30	5.6	8	0	0		8.1	0	0		0	
1st Aft		8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		1.25	
2nd Aft		8	30	5.6	8.4	0	0		8.3	0	0		0	
3rd Aft		8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		1.88	
4th Aft		8	30	5.6	8.1	0	0		7.8	0.2	2.5		1.25	
5th Aft		8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		2.5	
6th Aft		8	30	5.6	7.7	0.3	3.75		7.6	0.4	5		4.38	
7th Aft		8	30	5.6	9.7	0	0		9.7	0	0		0	
8th Aft					9.8				9.8					
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Wind and Water Strakes Plating
Strake Position :	3rd below Sheer Strake

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd		8	30	5.6	7.8	0.2	2.5		7.5	0.5	6.25		4.38	
4th Fwd		8	30	5.6	8.1	0	0		7.8	0.2	2.5		1.25	
3rd Fwd		8	30	5.6	8	0	0		8	0	0		0	
2nd Fwd		8	30	5.6	8.2	0	0		8.1	0	0		0	
1st Fwd		8	30	5.6	8.1	0	0		7.8	0.2	2.5		1.25	
Amidships		8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		1.25	
1st Aft		8	30	5.6	7.8	0.2	2.5		8	0	0		1.25	
2nd Aft		8	30	5.6	7.6	0.4	5		7.8	0.2	2.5		3.75	
3rd Aft		8	30	5.6	7.8	0.2	2.5		8	0	0		1.25	
4th Aft		8	30	5.6	8	0	0		7.8	0.2	2.5		1.25	
5th Aft		8	30	5.6	8	0	0		7.5	0.5	6.25		3.13	
6th Aft		8	30	5.6	8.1	0	0		7.8	0.2	2.5		1.25	
7th Aft		8	30	5.6	7.7	0.3	3.75							
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM1 – Deck, Shell & Bottom Plating

Space / Compartment Description :	Wind and Water Strakes Plating
Strake Position :	3rd below Sheer Strake

Plate Position	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Starboard Reading									Comments
					Forward				Aft				Mean Diminution (%)	
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)		
10th Fwd														
9th Fwd														
8th Fwd														
7th Fwd														
6th Fwd														
5th Fwd		8	30	5.6	7.9	0.1	1.25		8	0	0		0.63	
4th Fwd		8	30	5.6	8	0	0		8	0	0		0	
3rd Fwd		8	30	5.6	8.1	0	0		8.1	0	0		0	
2nd Fwd		8	30	5.6	7.6	0.4	5		7.3	0.7	8.75		6.88	
1st Fwd		8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		2.5	
Amidships		8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		1.88	
1st Aft		8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		1.88	
2nd Aft		8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		3.13	
3rd Aft		8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		1.88	
4th Aft		8	30	5.6	7.8	0.2	2.5		8	0	0		1.25	
5th Aft		8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		1.88	
6th Aft		8	30	5.6	8	0	0		7.7	0.3	3.75		1.88	
7th Aft		8	30	5.6										
8th Aft														
9th Aft														
10th Aft														

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Remaining Exposed Deck/Superstructure Plating - Superstructure Deck Plating

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck 6

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Fwd	C-P1	6.4	30	4.5	6.3	0.1	1.56		6.3	0.1	1.56		
Plate, Aft.	C-P1	6.4	30	4.5	6.4	0	0		6.4	0	0		
Plate, Fwd	C-P2	6.4	30	4.5	6.3	0.1	1.56		6.3	0.1	1.56		
Plate, Aft.	C-P2	6.4	30	4.5	6.5	0	0		6.4	0	0		
Plate, Fwd	C-P3	6.4	30	4.5	6.2	0.2	3.13		6.2	0.2	3.13		
Plate, Aft.	C-P3	6.4	30	4.5	6.1	0.3	4.69		6.1	0.3	4.69		
Plate, Fwd	C-P4	6.4	30	4.5	6.5	0	0		6.5	0	0		
Plate, Aft.	C-P4	6.4	30	4.5	6.5	0	0		6.5	0	0		
Plate, Fwd	1-P1	6.4	30	4.5	6.3	0.1	1.56		6.2	0.2	3.13		
Plate, Aft.	1-P1	6.4	30	4.5	6.4	0	0		6.2	0.2	3.13		
Plate, Fwd	1-P2	6.4	30	4.5	6.4	0	0		6.2	0.2	3.13		
Plate, Aft.	1-P2	6.4	30	4.5	6.3	0.1	1.56		6.2	0.2	3.13		
Plate, Fwd	1-P3	6.4	30	4.5	6.2	0.2	3.13		6.3	0.1	1.56		
Plate, Aft.	1-P3	6.4	30	4.5	6.3	0.1	1.56		6.3	0.1	1.56		
Plate, Fwd	1-P4	6.4	30	4.5	6.2	0.2	3.13		6.4	0	0		
Plate, Aft.	1-P4	6.4	30	4.5	6.1	0.3	4.69		6.2	0.2	3.13		
Plate, Fwd	2-P1	6.4	30	4.5	6.1	0.3	4.69		6.2	0.2	3.13		
Plate, Aft.	2-P1	6.4	30	4.5	6.2	0.2	3.13		6.3	0.1	1.56		
Plate, Fwd	2-P2	6.4	30	4.5	6.3	0.1	1.56		6.2	0.2	3.13		
Plate, Aft.	2-P2	6.4	30	4.5	6.2	0.2	3.13		6.4	0	0		
Plate, Fwd	2-P3	6.4	30	4.5	6.1	0.3	4.69		6.4	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck 6

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Aft.	2-P3	6.4	30	4.5	6.2	0.2	3.13		6.4	0	0		
Plate, Fwd	2-P4	6.4	30	4.5	6.2	0.2	3.13		6.1	0.3	4.69		
Plate, Aft.	2-P4	6.4	30	4.5	6.3	0.1	1.56		6.2	0.2	3.13		
Plate, Fwd	3-P1	6.4	30	4.5	6.3	0.1	1.56		6.2	0.2	3.13		
Plate, Aft.	3-P1	6.4	30	4.5	6.3	0.1	1.56		6.1	0.3	4.69		
Plate, Fwd	3-P2	6.4	30	4.5	6.2	0.2	3.13		6.4	0	0		
Plate, Aft.	3-P2	6.4	30	4.5	6.2	0.2	3.13		6.3	0.1	1.56		
Plate, Fwd	3-P3	6.4	30	4.5	6.1	0.3	4.69		5.8	0.6	9.37		
Plate, Aft.	3-P3	6.4	30	4.5	6.2	0.2	3.13		5.9	0.5	7.81		
Plate, Fwd	3-P4	6.4	30	4.5	6.4	0	0		6.1	0.3	4.69		
Plate, Aft.	3-P4	6.4	30	4.5	6.1	0.3	4.69		6.2	0.2	3.13		
Plate, Fwd	4-P1	6.4	30	4.5	6.4	0	0		6.3	0.1	1.56		
Plate, Aft.	4-P1	6.4	30	4.5	6.2	0.2	3.13		6	0.4	6.25		
Plate, Fwd	4-P2	6.4	30	4.5	6.2	0.2	3.13		6.1	0.3	4.69		
Plate, Aft.	4-P2	6.4	30	4.5	6.3	0.1	1.56		6.2	0.2	3.13		
Plate, Fwd	4-P3	6.4	30	4.5					6.2	0.2	3.13		
Plate, Aft.	4-P3	6.4	30	4.5					6.1	0.3	4.69		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck No. 4

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Aft.	C10	8	30	5.6	8.2	0	0		8.2	0	0		
Plate, Fwd	C10	8	30	5.6	8	0	0		8	0	0		
Plate, Aft.	C11	8	30	5.6	8.5	0	0		8.5	0	0		
Plate, Fwd	C11	8	30	5.6	8.7	0	0		8.7	0	0		
Plate, Aft.	C12	8	30	5.6	9.2	0	0		9.2	0	0		
Plate, Fwd	C12	8	30	5.6	9.1	0	0		9.1	0	0		
Plate, Aft.	1-1	6	30	4.2	5.8	0.2	3.33		5.9	0.1	1.67		AFT END
Plate, Fwd	1-1	6	30	4.2	5.7	0.3	5		6	0	0		AFT END
Plate, Aft.	1-10	8	30	5.6	8.4	0	0		8.7	0	0		
Plate, Fwd	1-10	8	30	5.6	8.5	0	0		8.6	0	0		
Plate, Aft.	1-11	8	30	5.6	8.6	0	0		8.5	0	0		
Plate, Fwd	1-11	8	30	5.6	8.7	0	0		8.6	0	0		
Plate, Aft.	2-1	6	30	4.2	6	0	0		6.1	0	0		AFT END
Plate, Fwd	2-1	6	30	4.2	6	0	0		6.1	0	0		AFT END
Plate, Aft.	2-2	8	30	5.6	7.6	0.4	5		8.2	0	0		
Plate, Fwd	2-2	8	30	5.6	8.1	0	0		8.3	0	0		
Plate, Aft.	2-3	6	30	4.2	6.2	0	0		5.9	0.1	1.67		AFT END
Plate, Fwd	2-3	6	30	4.2	6.1	0	0		5.8	0.2	3.33		AFT END
Plate, Aft.	2-10	8	30	5.6	8.8	0	0		8.6	0	0		
Plate, Fwd	2-10	8	30	5.6	8.9	0	0		8.7	0	0		
Plate, Aft.	2-11	8	30	5.6	9.1	0	0		9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck No. 4

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Fwd	2-11	8	30	5.6	9.1	0	0		9.1	0	0		
Plate, Aft.	3-1	8	30	5.6	7.7	0.3	3.75		7.6	0.4	5		
Plate, Fwd	3-1	8	30	5.6	7.7	0.3	3.75		7.7	0.3	3.75		
Plate, Aft.	3-2	8	30	5.6	8.2	0	0		7.6	0.4	5		
Plate, Fwd	3-2	8	30	5.6	8.1	0	0		7.8	0.2	2.5		
Plate, Aft.	3-3	8	30	5.6	7.9	0.1	1.25		7.2	0.8	10		
Plate, Fwd	3-3	8	30	5.6	7.8	0.2	2.5		8	0	0		
Plate, Aft.	3-4	8	30	5.6	8.1	0	0		8.1	0	0		
Plate, Fwd	3-4	8	30	5.6	8.2	0	0		8.2	0	0		
Plate, Aft.	3-5	8	30	5.6	8	0	0		8.1	0	0		
Plate, Fwd	3-5	8	30	5.6	7.9	0.1	1.25		8.1	0	0		
Plate, Aft.	3-6	8	30	5.6	8.1	0	0		7.9	0.1	1.25		
Plate, Fwd	3-6	8	30	5.6	8.2	0	0		7.8	0.2	2.5		
Plate, Aft.	3-7	8	30	5.6	8.1	0	0		7.3	0.7	8.75		
Plate, Fwd	3-7	8	30	5.6	8.2	0	0		8.3	0	0		
Plate, Aft.	3-8	8	30	5.6	7.9	0.1	1.25		8	0	0		
Plate, Fwd	3-8	8	30	5.6	8	0	0		8.1	0	0		
Plate, Aft.	3-9	8	30	5.6	8.2	0	0		8.1	0	0		
Plate, Fwd	3-9	8	30	5.6	8.5	0	0		8.1	0	0		
Plate, Aft.	3-10	8	30	5.6	8.7	0	0		8.2	0	0		
Plate, Fwd	3-10	8	30	5.6	8.6	0	0		8.6	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck No. 4

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Aft.	3-11	8	30	5.6	9	0	0		8.8	0	0		
Plate, Fwd	3-11	8	30	5.6	8.9	0	0		8.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck No. 5

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Aft.	C1	6	30	4.2	6.4	0	0		6.4	0	0		
Plate, Fwd	C1	6	30	4.2	6.3	0	0		6.3	0	0		
Plate, Aft.	C2	6	30	4.2	6.5	0	0		6.5	0	0		
Plate, Fwd	C2	6	30	4.2	6.5	0	0		6.5	0	0		
Plate, Aft.	C3	6	30	4.2	5.9	0.1	1.67		5.9	0.1	1.67		
Plate, Fwd	C3	6	30	4.2	5.9	0.1	1.67		5.9	0.1	1.67		
Plate, Aft.	C4	6	30	4.2	6	0	0		6	0	0		
Plate, Fwd	C4	6	30	4.2	6	0	0		6	0	0		
Plate, Aft.	C5	6	30	4.2	6.2	0	0		6.2	0	0		
Plate, Fwd	C5	6	30	4.2	6.1	0	0		6.1	0	0		
Plate, Aft.	C6	6	30	4.2	6	0	0		6	0	0		
Plate, Fwd	C6	6	30	4.2	6.1	0	0		6.1	0	0		
Plate, Aft.	C11	6	30	4.2	6.1	0	0		6.1	0	0		
Plate, Fwd	C11	6	30	4.2	6.1	0	0		6.1	0	0		
Plate, Aft.	1-1	6	30	4.2	6.3	0	0		6.5	0	0		
Plate, Fwd	1-1	6	30	4.2	6.4	0	0		6.4	0	0		
Plate, Aft.	1-2	6	30	4.2	6.1	0	0		6.3	0	0		
Plate, Fwd	1-2	6	30	4.2	6.2	0	0		6.4	0	0		
Plate, Aft.	1-3	6	30	4.2	5.8	0.2	3.33		6	0	0		
Plate, Fwd	1-3	6	30	4.2	5.9	0.1	1.67		6	0	0		
Plate, Aft.	1-4	6	30	4.2	6	0	0		5.9	0.1	1.67		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck No. 5

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Fwd	1-4	6	30	4.2	6.1	0	0		6	0	0		
Plate, Aft.	1-5	6	30	4.2	6	0	0		6	0	0		
Plate, Fwd	1-5	6	30	4.2	6.1	0	0		6	0	0		
Plate, Aft.	1-6	6	30	4.2	6	0	0		6.1	0	0		
Plate, Fwd	1-6	6	30	4.2	6	0	0		6.1	0	0		
Plate, Aft.	1-11	6	30	4.2	5.7	0.3	5		5.7	0.3	5		
Plate, Fwd	1-11	6	30	4.2	5.7	0.3	5		5.8	0.2	3.33		
Plate, Aft.	2-1	6	30	4.2	6.3	0	0		6.3	0	0		
Plate, Fwd	2-1	6	30	4.2	6.4	0	0		6.3	0	0		
Plate, Aft.	2-2	6	30	4.2	6.2	0	0		6.3	0	0		
Plate, Fwd	2-2	6	30	4.2	6.1	0	0		6.2	0	0		
Plate, Aft.	2-3	6	30	4.2	5.9	0.1	1.67		5.8	0.2	3.33		
Plate, Fwd	2-3	6	30	4.2	5.9	0.1	1.67		6.1	0	0		
Plate, Aft.	2-4	6	30	4.2	6.1	0	0		6.1	0	0		
Plate, Fwd	2-4	6	30	4.2	6.1	0	0		6.3	0	0		
Plate, Aft.	2-5	6	30	4.2	6.1	0	0		5.8	0.2	3.33		
Plate, Fwd	2-5	6	30	4.2	6	0	0		6.7	0	0		
Plate, Aft.	2-6	6	30	4.2	5.7	0.3	5		5.7	0.3	5		
Plate, Fwd	2-6	6	30	4.2	5.7	0.3	5		5.6	0.4	6.67		
Plate, Aft.	2-11	6	30	4.2	5.7	0.3	5		5.8	0.2	3.33		
Plate, Fwd	2-11	6	30	4.2	5.7	0.3	5		5.8	0.2	3.33		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck No. 5

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Aft.	3-1	6	30	4.2	6.1	0	0		6.2	0	0		
Plate, Fwd	3-1	6	30	4.2	6	0	0		6.4	0	0		
Plate, Aft.	3-2	6	30	4.2	6.2	0	0		6.4	0	0		
Plate, Fwd	3-2	6	30	4.2	6.2	0	0		6.3	0	0		
Plate, Aft.	3-3	6	30	4.2	6	0	0		6.1	0	0		
Plate, Fwd	3-3	6	30	4.2	6.1	0	0		6.1	0	0		inserts port sdie.
Plate, Aft.	3-4	6	30	4.2	5	1	16.67		5.4	0.6	10		Port Washroom
Plate, Fwd	3-4	6	30	4.2	4.9	1.1	18.33		5.3	0.7	11.67		Port Washroom
Plate, Aft.	3-5	6	30	4.2	5.7	0.3	5		5.8	0.2	3.33		
Plate, Fwd	3-5	6	30	4.2	6.1	0	0		5.8	0.2	3.33		
Plate, Aft.	3-6	6	30	4.2	6	0	0		6	0	0		
Plate, Fwd	3-6	6	30	4.2	6	0	0		6.1	0	0		
Plate, Aft.	3-7	6	30	4.2	5.8	0.2	3.33		5.8	0.2	3.33		
Plate, Fwd	3-7	6	30	4.2	5.9	0.1	1.67		5.6	0.4	6.67		
Plate, Aft.	3-8	6	30	4.2	6	0	0		5.9	0.1	1.67		
Plate, Fwd	3-8	6	30	4.2	5.9	0.1	1.67		6	0	0		
Plate, Aft.	3-9	6	30	4.2	5.9	0.1	1.67		6.1	0	0		
Plate, Fwd	3-9	6	30	4.2	5.8	0.2	3.33		6	0	0		
Plate, Aft.	3-10	6	30	4.2	5.6	0.4	6.67		5.9	0.1	1.67		
Plate, Fwd	3-10	6	30	4.2	5.6	0.4	6.67		5.8	0.2	3.33		
Plate, Aft.	4-1	6	30	4.2	7.7	0	0		7.7	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Superstructure Deck Plating
Location of Structure :	Deck No. 5

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate, Fwd	4-1	6	30	4.2	7.6	0	0		7.7	0	0		
Plate, Aft.	4-2	6	30	4.2	7.1	0	0		7.7	0	0		
Plate, Fwd	4-2	6	30	4.2	7.7	0	0		7.7	0	0		
Plate, Aft.	4-3	6	30	4.2	6	0	0		6	0	0		
Plate, Fwd	4-3	6	30	4.2	5.8	0.2	3.33		6	0	0		
Plate, Aft.	4-4	6	30	4.2	5.9	0.1	1.67		6.1	0	0		
Plate, Fwd	4-4	6	30	4.2	5.9	0.1	1.67		6.1	0	0		
Plate, Aft.	4-5	6	30	4.2	5.9	0.1	1.67		5.8	0.2	3.33		
Plate, Fwd	4-5	6	30	4.2	5.9	0.1	1.67		5.9	0.1	1.67		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Peak Tanks – Transverse Webs and Bulkheads - Fore Peak

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Fore Peak
Location of Structure :	Frame No. 115
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Plate	B1	8			7.9	0.1	1.25		8	0	0		
Plate	B2	8			8	0	0		8.1	0	0		
Plate	B3	8			8.1	0	0		8.2	0	0		
Plate	B4	8			8.1	0	0		8.1	0	0		
Plate	B5	8			8	0	0		8.1	0	0		
Plate	B6	8			8.1	0	0		8.1	0	0		
Plate	B7	8			8.1	0	0		8.1	0	0		
Plate	B8	8			8	0	0		8.1	0	0		
Plate	B9	8			7.8	0.2	2.5		7.8	0.2	2.5		
Plate	B10	8			7.9	0.1	1.25		7.8	0.2	2.5		
Plate	B11	8			7.9	0.1	1.25		7.8	0.2	2.5		
Plate	B12	8			7.9	0.1	1.25		7.8	0.2	2.5		
Plate	B13	8			7.9	0.1	1.25		7.8	0.2	2.5		
Plate	B14	8			7.9	0.1	1.25		7.8	0.2	2.5		
Vert. Stiff, Top Plate	VS-C	8			9	0	0		9	0	0		
Vert. Stiff., Flg., Middle	VS-C	20			19.3	0.7	3.5		19.3	0.7	3.5		
Vert. Stiff., Web, Middle	VS-C	10			9.5	0.5	5		9.5	0.5	5		
Vert. Stiff., Flg, Btm	VS-C	20			19.8	0.2	1		19.8	0.2	1		
Vert. Stiff., Web, Btm.	VS-C	10			9.5	0.5	5		9.5	0.5	5		
Vert. Stiff., Flg	VS-1	10			10	0	0		9.9	0.1	1		
Vert. Stiff. Web	VS-1	10			10	0	0		10	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Fore Peak
Location of Structure :	Frame No. 115
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Stiff., Flg	VS-2	10			9.9	0.1	1		10	0	0		
Vert. Stiff. Web	VS-2	10			10	0	0		10.1	0	0		
Vert. Stiff., Flg	VS-3	10			9.8	0.2	2		9.9	0.1	1		
Vert. Stiff. Web	VS-3	10			9.9	0.1	1		9.9	0.1	1		
Long Girder, Centre line, Web	G-1	10			9.5	0.5	5		9.5	0.5	5		
Side Shell Plate	S1	8			7.1	0.9	11.25		7	1	12.5		
Side Shell Plate	S2	8			7.3	0.7	8.75		7.1	0.9	11.25		
Side Shell Plate	S3	8			7.9	0.1	1.25		8	0	0		
Side Shell Plate	S4	8			7.9	0.1	1.25		7.9	0.1	1.25		
Side Shell Plate	S5	8			7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell Plate	S6	8			7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell Plate	S7	8			7.5	0.5	6.25		7.4	0.6	7.5		
Side Shell Plate	S8	8			7.4	0.6	7.5		7.1	0.9	11.25		
Side Shell Plate	S9	8			7.3	0.7	8.75		7.2	0.8	10		
Deck Plate	D1	12			11.4	0.6	5		11.3	0.7	5.83		
Deck Plate	D2	12			11.1	0.9	7.5		11.2	0.8	6.67		
Deck Plate	D3	12			11.2	0.8	6.67		11.3	0.7	5.83		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 116

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.4	0.6	7.5		7.4	0.6	7.5		
Underdeck Girder, Centre, Flg.	G-1	10	25	7.5	9.2	0.8	8		9.2	0.8	8		
Underdeck Long., Web	UDL-1	10	25	7.5	9.8	0.2	2		9.9	0.1	1		
Underdeck Long., Flg.	UDL-1	10	25	7.5	9.9	0.1	1		10	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	9.9	0.1	1		10	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	9.8	0.2	2		10	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	9.9	0.1	1		9.8	0.2	2		
Underdeck Long., Flg.	UDL-3	10	25	7.5	9.9	0.1	1		9.7	0.3	3		
Underdeck Long., Web	UDL-4	10	25	7.5	9.9	0.1	1		9.8	0.2	2		
Underdeck Long., Flg.	UDL-4	10	25	7.5	9.8	0.2	2		9.6	0.4	4		
Side shell	S1	8	30	5.6	8	0	0		7.9	0.1	1.25		
Side shell	S2	8	30	5.6	8	0	0		7	1	12.5		
Side shell	S3	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Side shell	S4	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side shell	S5	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side shell	S6	8	30	5.6	8	0	0		7.9	0.1	1.25		
Side shell	S7	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side shell	S8	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Stringer, Flg.	ST-1	8	25	6	8.5	0	0		8.6	0	0		
Stringer, WEb	ST-1	8	25	6	7	1	12.5		7.1	0.9	11.25		
Centre Long. girder, Flg.	G-2	20	25	15	20.1	0	0		20.1	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 116

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Centre Long. girder, Web	G-2	10	25	7.5	9.6	0.4	4		9.6	0.4	4		
Floor, Flg.	F1	10	25	7.5	8.9	1.1	11		8.8	1.2	12		
Floor, Web	F1	8	25	6	7.9	0.1	1.25		7.7	0.3	3.75		
Web Frame, Flg.	WF-1	8	25	6	8.8	0	0		9	0	0		
Web Frame, Web	WF-1	8	25	6	7.3	0.7	8.75		7.8	0.2	2.5		
Web Frame, Flg.	WF-2	8	25	6	8.6	0	0		8.8	0	0		
Web Frame, Web	WF-2	8	25	6	7.2	0.8	10		7.9	0.1	1.25		
Web Frame, Flg.	WF-3	8	25	6	8.7	0	0		8.7	0	0		
Web Frame, Web	WF-3	8	25	6	8	0	0		8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 117

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Web	G1	8	25	6	7.5	0.5	6.25		7.5	0.5	6.25		
Underdeck Girder, Flg.	G1	10	25	7.5	9.3	0.7	7		9.3	0.7	7		
Underdeck Long., Web	UDL-1	10	25	7.5	9.9	0.1	1		10	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	10	0	0		10	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	9.8	0.2	2		9.9	0.1	1		
Underdeck Long., Flg.	UDL-2	10	25	7.5	9.7	0.3	3		9.8	0.2	2		
Underdeck Long., Web	UDL-3	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Underdeck Long., Flg.	UDL-3	10	25	7.5	9.6	0.4	4		9.9	0.1	1		
Underdeck Long., Web	UDL-4	10	25	7.5	9.8	0.2	2		9.9	0.1	1		
Underdeck Long., Flg.	UDL-4	10	25	7.5	9.9	0.1	1		9.7	0.3	3		
Side Shell	S1	8	30	5.6	8	0	0		8	0	0		
Side Shell	S2	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Side Shell	S3	8	30	5.6	8	0	0		7	1	12.5		
Side Shell	S4	8	30	5.6	7.9	0.1	1.25		8	0	0		
Side Shell	S5	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell	S6	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Side Shell	S7	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S8	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Stringer, Web	ST1	8	25	6	7.1	0.9	11.25		7	1	12.5		
Stringer, Flg.	ST1	8	25	6	8.7	0	0		8.6	0	0		
Web Frame, Web	WF1	8	25	6	7.4	0.6	7.5		7.5	0.5	6.25		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 117

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Web Frame, Flg.	WF1	8	25	6	8.7	0	0		8.6	0	0		
Web Frame, Web	WF2	8	25	6	7.2	0.8	10		7.3	0.7	8.75		
Web Frame, Flg.	WF2	8	25	6	8.9	0	0		9	0	0		
Web Frame, Web	WF3	8	25	6	7.3	0.7	8.75		7.2	0.8	10		
Web Frame, Flg.	WF3	8	25	6	8.8	0	0		8.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 118

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Web	G1	8	25	6	7.6	0.4	5		7.6	0.4	5		
Underdeck Girder, Flg.	G1	10	25	7.5	9.4	0.6	6		9.4	0.6	6		
Underdeck Long., Web	UDL-1	10	25	7.5	9.9	0.1	1		10	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	9.8	0.2	2		9.7	0.3	3		
Underdeck Long., Web	UDL-2	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Underdeck Long., Flg.	UDL-2	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Underdeck Long., Web	UDL-3	10	25	7.5	9.9	0.1	1		9.8	0.2	2		
Underdeck Long., Flg.	UDL-3	10	25	7.5	9.7	0.3	3		9.9	0.1	1		
Side Shell	S1	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S2	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S3	8	30	5.6	8	0	0		8	0	0		
Side Shell	S4	8	30	5.6	8	0	0		7.9	0.1	1.25		
Side Shell	S5	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S6	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S7	8	30	5.6	7.7	0.3	3.75		7.7	0.3	3.75		
Side Shell	S8	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Stringer, Web	ST1	8	25	6	7	1	12.5		7.2	0.8	10		
Stringer, Flg.	ST1	8	25	6	8.6	0	0		8.7	0	0		
Web Frame, Web	WF1	8	25	6	7.2	0.8	10		7.3	0.7	8.75		
Web Frame, Flg.	WF1	8	25	6	8.9	0	0		8.8	0	0		
Web Frame, Web	WF2	8	25	6	7.1	0.9	11.25		7.2	0.8	10		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 118

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Web Frame, Flg.	WF2	8	25	6	8.8	0	0		8.9	0	0		
Web Frame, Web	WF3	8	25	6	7.2	0.8	10		7.3	0.7	8.75		
Web Frame, Flg.	WF3	8	25	6	9	0	0		8.9	0	0		
Girder, Centre Web	G2	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Gorder, Centre, Flg.	G2	20	25	15	19.6	0.4	2		19.6	0.4	2		
Foor, Web	FL1	8	25	6	7.7	0.3	3.75		7.9	0.1	1.25		
Floor Flg.	Fl1	10	25	7.5	9	1	10		8.9	1.1	11		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 119

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Web	G1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Underdeck Girder, Flg.	G1	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Underdeck Long., Web	UDL-1	10	25	7.5	10	0	0		9.9	0.1	1		
Underdeck Long., Flg.	UDL-1	10	25	7.5	9.8	0.2	2		9.9	0.1	1		
Underdeck Long., Web	UDL-2	10	25	7.5	9.9	0.1	1		10	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	10	0	0		10	0	0		
Side Shell	S1	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S2	8	30	5.6	7.9	0.1	1.25		7.7	0.3	3.75		
Side Shell	S3	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S4	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S5	8	30	5.6	7.9	0.1	1.25		7.7	0.3	3.75		
Side Shell	S6	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell	S7	8	30	5.6	8	0	0		7.9	0.1	1.25		
Side Shell	S8	8	30	5.6	8	0	0		7.9	0.1	1.25		
Web Frame, Web	WF1	8	25	6	7.3	0.7	8.75		7.2	0.8	10		
Web Frame, Flg.	WF1	8	25	6	9	0	0		8.9	0	0		
Web Frame, Web	WF2	8	25	6	7.2	0.8	10		7.3	0.7	8.75		
Web Frame, Flg.	WF2	8	25	6	8.9	0	0		8.8	0	0		
Web Frame, Web	WF3	8	25	6	7.1	0.9	11.25		7.1	0.9	11.25		
Web Frame, Flg.	WF3	8	25	6	8.8	0	0		8.7	0	0		
Girder, Centre Web	G2	10	25	7.5	9.8	0.2	2		9.8	0.2	2		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 119

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Gorder, Centre, Flg.	G2	20	25	15	19.4	0.6	3		19.4	0.6	3		
Foor, Web	FL1	8	25	6	7.9	0.1	1.25		8	0	0		
Floor Flg.	FL1	10	25	7.5	8.9	1.1	11		9	1	10		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 120

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Web	G1	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Underdeck Girder, Flg.	G1	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Underdeck Long., Web	UDL-1	10	25	7.5	9.9	0.1	1		9.8	0.2	2		
Underdeck Long., Flg.	UDL-1	10	25	7.5	9.7	0.3	3		9.9	0.1	1		
Underdeck Long., Web	UDL-2	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Underdeck Long., Flg.	UDL-2	10	25	7.5	8.8	1.2	12		9.9	0.1	1		
Side Shell	S1	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Side Shell	S2	8	30	5.6	7.9	0.1	1.25		8	0	0		
Side Shell	S3	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S4	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S5	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S6	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell	S7	8	30	5.6	7.6	0.4	5		7.6	0.4	5		
Side Shell	S8	8	30	5.6	7.7	0.3	3.75		7.6	0.4	5		
Stringer, Web	ST1	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Stringer, Flg.	ST1	8	25	6	9	0	0		9.1	0	0		
Web Frame, Web	WF1	8	25	6	7	1	12.5		7.6	0.4	5		
Web Frame, Flg.	WF1	8	25	6	9.1	0	0		9.1	0	0		
Web Frame, Web	WF2	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Web Frame, Flg.	WF2	8	25	6	9.3	0	0		9.4	0	0		
Web Frame, Web	WF3	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 120

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Web Frame, Flg.	WF3	8	25	6	9.3	0	0		9.2	0	0		
Web Frame, Web	WF4	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Web Frame, Flg.	WF4	8	25	6	9.3	0	0		9.2	0	0		
Girder, Centre Web	G2	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Gorder, Centre, Flg.	G2	20	25	15	19.7	0.3	1.5		19.1	0.9	4.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 121

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Web	G1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Underdeck Girder, Flg.	G1	10	25	7.5	9.5	0.5	5		9.8	0.2	2		
Underdeck Long., Web	UDL-1	10	25	7.5	10	0	0		9.9	0.1	1		
Underdeck Long., Flg.	UDL-1	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Side Shell	S1	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S2	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Side Shell	S3	8	30	5.6	7.9	0.1	1.25		8	0	0		
Side Shell	S4	8	30	5.6	7.9	0.1	1.25		8	0	0		
Side Shell	S5	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell	S6	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell	S7	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell	S8	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Stringer, Web	ST1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Stringer, Flg.	ST1	8	25	6	9	0	0		9	0	0		
Web Frame, Web	WF1	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Web Frame, Flg.	WF1	8	25	6	9.6	0	0		9.5	0	0		
Web Frame, Web	WF2	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Web Frame, Flg.	WF2	8	25	6	7.8	0.2	2.5		9.2	0	0		
Web Frame, Web	WF3	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Web Frame, Flg.	WF3	8	25	6	9.4	0	0		7.9	0.1	1.25		
Web Frame, Web	WF4	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 121

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Web Frame, Flg.	WF4	8	25	6	9.5	0	0		9.4	0	0		
Girder, Centre Web	G2	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Girder, Centre, Flg.	G2	20	25	15	19.9	0.1	0.5		19.9	0.1	0.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 122

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bar Top, Web	B1	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Bar Top, Web	B2	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Bar Top, Web	B3	8	25	6	7.9	0.1	1.25		8	0	0		
Girder, Top, Web	G1	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Girder, Top, Flg	G1	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Side Shell	S1	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell	S2	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S3	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell	S4	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S5	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S6	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Web Frame, Web	WF1	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Web Frame, Flg.	WF1	8	25	6	9.6	0	0		9.6	0	0		
Web Frame, Web	WF2	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Web Frame, Flg.	WF2	8	25	6	9.5	0	0		9.5	0	0		
Web Frame, Web	WF3	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Web Frame, Flg.	WF3	8	25	6	9.3	0	0		9.4	0	0		
Girder, Centre Web	G2	10	25	7.5	9.3	0.7	7		9.4	0.6	6		
Gorder, Centre, Flg.	G2	20	25	15	19.3	0.7	3.5		19.3	0.7	3.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 123

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Girder, Top, Web	G1	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Girder, Top, Flg	G1	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Side Shell	S1	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell	S2	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S3	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S4	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S5	8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		
Side Shell	S6	8	30	5.6	7.6	0.4	5		7.7	0.3	3.75		
Web Frame, Web	WF1	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Web Frame, Flg.	WF1	8	25	6	9.5	0	0		9.6	0	0		
Web Frame, Web	WF2	8	25	6	7.7	0.3	3.75		7.8	0.2	2.5		
Web Frame, Flg.	WF2	8	25	6	9.6	0	0		9.5	0	0		
Web Frame, Web	WF3	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Web Frame, Flg.	WF3	8	25	6	9.5	0	0		9.4	0	0		
Girder, Centre Web	G2	10	25	7.5	9.5	0.5	5		9.5	0.5	5		
Gorder, Centre, Flg.	G2	20	25	15	19.5	0.5	2.5		19.5	0.5	2.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 124

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Girder, Top, Web	G1	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Girder, Top, Flg	G1	10	25	7.5	9.6	0.4	4		9.6	0.4	4		
Side Shell	S1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S2	8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		
Side Shell	S3	8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		
Side Shell	S4	8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		
Side Shell	S5	8	30	5.6	7.7	0.3	3.75		7.7	0.3	3.75		
Side Shell	S6	8	30	5.6	7.6	0.4	5		7.7	0.3	3.75		
Web Frame, Web	WF1	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Web Frame, Flg.	WF1	8	25	6	9.5	0	0		9.6	0	0		
Web Frame, Web	WF2	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Web Frame, Flg.	WF2	8	25	6	9.7	0	0		9.6	0	0		
Web Frame, Web	WF3	8	25	6	7.7	0.3	3.75		7.8	0.2	2.5		
Web Frame, Flg.	WF3	8	25	6	9.6	0	0		9.5	0	0		
Girder, Centre Web	G2	10	25	7.5	9.5	0.5	5		9.5	0.5	5		
Gorder, Centre, Flg.	G2	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Long. Stiff,, Web	LS1	10	25	7.5	9.7	0.3	3		9.8	0.2	2		
Long. Stiff,, Web	LS2	10	25	7.5	9.7	0.3	3		9.7	0.3	3		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 125

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Girder, Top, Web	G1	10	25	7.5	9.6	0.4	4		9.6	0.4	4		
Girder, Top, Flg	G1	10	25	7.5	9.6	0.4	4		9.6	0.4	4		
Side Shell	S1	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell	S2	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell	S3	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S4	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S5	8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		
Side Shell	S6	8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		
Web Frame, Web	WF1	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Web Frame, Flg.	WF1	8	25	6	9.5	0	0		9.6	0	0		
Web Frame, Web	WF2	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Web Frame, Flg.	WF2	8	25	6	9.5	0	0		9.6	0	0		
Web Frame, Web	WF3	8	25	6	7.7	0.3	3.75		7.9	0.1	1.25		
Web Frame, Flg.	WF3	8	25	6	9.6	0	0		9.4	0	0		
Girder, Centre Web	G2	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Gorder, Centre, Flg.	G2	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Long. Stiff,, Web	LS1	10	25	7.5	9.7	0.3	3		9.8	0.2	2		
Long. Stiff,, Web	LS2	10	25	7.5	9.8	0.2	2		9.8	0.2	2		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 126

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Girder, Top, Web	G1	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Girder, Top, Flg	G1	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Side Shell	S1	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		
Side Shell	S2	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell	S3	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell	S4	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell	S5	8	30	5.6	7.7	0.3	3.75		7.7	0.3	3.75		
Side Shell	S6	8	30	5.6	7.7	0.3	3.75		7.7	0.3	3.75		
Web Frame, Web	WF1	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Web Frame, Flg.	WF1	8	25	6	9.8	0	0		9.8	0	0		
Web Frame, Web	WF2	8	25	6	7.7	0.3	3.75		7.7	0.3	3.75		
Web Frame, Flg.	WF2	8	25	6	9.8	0	0		9.9	0	0		
Web Frame, Web	WF3	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Web Frame, Flg.	WF3	8	25	6	9.8	0	0		9.7	0	0		
Girder, Centre Web	G2	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Gorder, Centre, Flg.	G2	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Long. Stiff,, Web	LS1	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Long. Stiff,, Web	LS2	10	25	7.5	9.8	0.2	2		9.7	0.3	3		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Fore Peak
Location of Structure :	Transverse Web - Frame No. 127

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Girder, Centre, Web	G1	10	25	7.5	9.5	0.5	5		9.5	0.5	5		
Girder, Centre, Flg.	G1	10	25	7.5	9.6	0.4	4		9.6	0.4	4		
Stiff., Lower	ST1	10	25	7.5	9.6	0.4	4		9.5	0.5	5		
Stiff., Middle	ST2	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Side Shell, above weld seam	S1	8	30	5.6	7.6	0.4	5		7.5	0.5	6.25		
Side Shell, below weld.seam	S2	8	30	5.6	7.7	0.3	3.75		7.7	0.3	3.75		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Peak Tanks – Transverse Webs and Bulkheads - Aft Peak

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 19

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	8	0	0		7.9	0.1	1.25		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.6	0.4	2		19.6	0.4	2		
Underdeck Long., Web	UDL-1	10	25	7.5	11.7	0	0		11.5	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.5	0	0		11.6	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.5	0	0		11.4	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.6	0	0		11.5	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.7	0	0		11.5	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.9	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.5	0	0		11.7	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 19

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.5	0	0		11.6	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8.2	0	0		
Bracket, Web	BR-2	8	25	6	9.4	0	0		9.6	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.5	0	0		19.5	0	0		
Centre Long. girder, Web	G-2	10	25	7.5	9.6	0.4	4		8.9	1.1	11		
a	WF-1	8	25	6	8.5	0	0		9.8	0	0		
Web Frame, Web	WF-1	8	25	6	9.7	0	0		9.7	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.4	0	0		9.5	0	0		
Web Frame, Web	WF-2	8	25	6	8	0	0		9.6	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.8	0.2	1.67		11.8	0.2	1.67		
Web Frame, Web	WF-3	8	25	6	8	0	0		7.9	0.1	1.25		
Web Frame, Flg.	WF-4	12	25	9	11.6	0.4	3.33		11.4	0.6	5		
Web Frame, Web	WF-4	8	25	6	8	0	0		7.6	0.4	5		
Web Frame, Flg.	WF-5	12	25	9	11.9	0.1	0.83		11.9	0.1	0.83		
Web Frame, Web	WF-5	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Web Frame, Flg.	WF-6	12	25	9	11.9	0.1	0.83		11.9	0.1	0.83		
Web Frame, Web	WF-6	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Bracket, Web	BR-3	10	25	7.5	9.7	0.3	3		9.9	0.1	1		
Bracket, Web	BR-4	10	25	7.5	9.4	0.6	6		9.3	0.7	7		
Vert. Column, Web	VS-1	7	25	5.3	7.9	0	0		7.9	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	7.8	0	0		7.7	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 19

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.9	0	0		7.9	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	7.7	0	0		7.7	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 18

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.4	0.6	3		19.4	0.6	3		
Underdeck Long., Web	UDL-1	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.9	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.6	0	0		11.6	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.4	0	0		11.5	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.4	0	0		11.5	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.8	0	0		11.5	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.9	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.8	0	0		11.4	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.7	0	0		11.8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 18

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.7	0	0		11.7	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8.5	0	0		
Bracket, Web	BR-2	8	25	6	9.3	0	0		9.7	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.6	0	0		19.6	0	0		
Centre Long. girder, Web	G-2	10	25	7.5	8.8	1.2	12		8.8	1.2	12		
Web Frame, Flg.	WF-1	8	25	6	9.7	0	0		9.8	0	0		
Web Frame, Web	WF-1	8	25	6	9.7	0	0		9.8	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.4	0	0		9.7	0	0		
Web Frame, Web	WF-2	8	25	6	9.7	0	0		9.7	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.8	0.2	1.67		11.4	0.6	5		
Web Frame, Web	WF-3	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Web Frame, Flg.	WF-4	12	25	9	11.8	0.2	1.67		11.3	0.7	5.83		
Web Frame, Web	WF-4	8	25	6	7.9	0.1	1.25		7.5	0.5	6.25		
Web Frame, Flg.	WF-5	12	25	9	11.9	0.1	0.83		11.9	0.1	0.83		
Web Frame, Web	WF-5	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Web Frame, Flg.	WF-6	12	25	9	11.8	0.2	1.67		11.8	0.2	1.67		
Web Frame, Web	WF-6	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Bracket, Web	BR-3	10	25	7.5	9.8	0.2	2		9.8	0.2	2		
Bracket, Web	BR-4	10	25	7.5	8.4	1.6	16		9.4	0.6	6		
Vert. Column, Web	VS-1	7	25	5.3	7.8	0	0		7.9	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	7.7	0	0		7.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 18

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.8	0	0		7.8	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	7.6	0	0		7.8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 17

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.5	0.5	2.5		19.5	0.5	2.5		
Underdeck Long., Web	UDL-1	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.5	0	0		11.7	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.4	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.5	0	0		11.6	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.4	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.4	0	0		11.8	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.5	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.5	0	0		11.8	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.8	0	0		11.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 17

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.8	0	0		11.8	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8	0	0		
Bracket, Web	BR-2	8	25	6	9.2	0	0		9.2	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.6	0	0		19.6	0	0		
Centre Long. girder, Web	G-2	10	25	7.5	9.7	0.3	3		8.9	1.1	11		
Web Frame, Flg.	WF-1	8	25	6	9.8	0	0		9.8	0	0		
Web Frame, Web	WF-1	8	25	6	9.8	0	0		9.9	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.8	0	0		9.8	0	0		
Web Frame, Web	WF-2	8	25	6	9.8	0	0		9.8	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.7	0.3	2.5		11.7	0.3	2.5		
Web Frame, Web	WF-3	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Web Frame, Flg.	WF-4	12	25	9	11.4	0.6	5		11.4	0.6	5		
Web Frame, Web	WF-4	8	25	6	7.6	0.4	5		7.6	0.4	5		
Web Frame, Flg.	WF-5	12	25	9	11.7	0.3	2.5		11.7	0.3	2.5		
Web Frame, Web	WF-5	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Web Frame, Flg.	WF-6	12	25	9	11.8	0.2	1.67		11.8	0.2	1.67		
Web Frame, Web	WF-6	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Bracket, Web	BR-3	10	25	7.5	9.7	0.3	3		9.7	0.3	3		
Bracket, Web	BR-4	8	25	6	7.5	0.5	6.25		7.5	0.5	6.25		
Vert. Column, Web	VS-1	7	25	5.3	7.8	0	0		8	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	7.9	0	0		8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 17

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.8	0	0		7.9	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	7.5	0	0		7.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 16

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.6	0.4	2		19.6	0.4	2		
Underdeck Long., Web	UDL-1	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.6	0	0		11.5	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.9	0	0		11.9	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.5	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.5	0	0		11.6	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.7	0	0		11.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 16

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.8	0	0		11.9	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8	0	0		
Bracket, Web	BR-2	8	25	6	9.1	0	0		9.1	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.7	0	0		19.7	0	0		
Centre Long. girder, Web	G-2	8	25	6	8.9	0	0		7.9	0.1	1.25		
Web Frame, Flg.	WF-1	8	25	6	9.6	0	0		9.7	0	0		
Web Frame, Web	WF-1	8	25	6	9.8	0	0		9.7	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.7	0	0		9.7	0	0		
Web Frame, Web	WF-2	8	25	6	9.7	0	0		9.8	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.5	0.5	4.17		11.9	0.1	0.83		
Web Frame, Web	WF-3	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Web Frame, Flg.	WF-4	12	25	9	11.6	0.4	3.33		11.5	0.5	4.17		
Web Frame, Web	WF-4	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Web Frame, Flg.	WF-5	12	25	9	11.9	0.1	0.83		11.8	0.2	1.67		
Web Frame, Web	WF-5	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Web Frame, Flg.	WF-6	12	25	9	11.7	0.3	2.5		11.6	0.4	3.33		
Web Frame, Web	WF-6	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Bracket, Web	BR-3	10	25	7.5	9.7	0.3	3		9.6	0.4	4		
Bracket, Web	BR-4	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Vert. Column, Web	VS-1	7	25	5.3	7.9	0	0		8	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	7.9	0	0		7.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 16

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.8	0	0		7.8	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	7.7	0	0		7.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 15

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	8	0	0		8	0	0		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.6	0.4	2		19.6	0.4	2		
Underdeck Long., Web	UDL-1	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.5	0	0		11.4	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.9	0	0		11.6	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.5	0	0		11.4	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.4	0	0		11.6	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.9	0	0		11.5	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.9	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.8	0	0		11.5	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 15

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.8	0	0		11.5	0	0		
Bracket, Web	BR-1	8	25	6									NOT THERE. ON DWG.
Bracket, Web	BR-2	8	25	6	9.7	0	0		10	0	0		
Bracket, Flg.	BR-2	12	25	9	11.7	0.3	2.5		12.8	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.8	0	0		19.5	0	0		
Centre Long. girder, Web	G-2	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Web Frame, Web	UWF-1	10	25	7.5	9.9	0.1	1		9.9	0.1	1		
Web Frame, Flg.	UWF-1	20	25	15	19.9	0.1	0.5		19.9	0.1	0.5		
Web Frame, Web	UWF-2	10	25	7.5	10	0	0		9.9	0.1	1		
Web Frame, Flg.	UWF-2	20	25	15	19.9	0.1	0.5		19.8	0.2	1		
Web Frame, Web	UWF-3	10	25	7.5	9	1	10		9.7	0.3	3		
Web Frame, Flg.	UWF-3	20	25	15	19.6	0.4	2		19.3	0.7	3.5		
Web Frame, Web	UWF-4	10	25	7.5	9.9	0.1	1		9.8	0.2	2		
Web Frame, Flg.	UWF-4	20	25	15	19.7	0.3	1.5		19.5	0.5	2.5		
Web Frame, Web	UWF-5	10	25	7.5	9.7	0.3	3		9.8	0.2	2		
Web Frame, Flg.	UWF-5	20	25	15	19.6	0.4	2		19.5	0.5	2.5		
Web Frame, Web	SWF-1	8	25	6	7.9	0.1	1.25		7.7	0.3	3.75		
Web Frame, Flg.	SWF-1	12	25	9	11.7	0.3	2.5		11.5	0.5	4.17		
Web Frame, Web	SWF-2	8	25	6	7.8	0.2	2.5		7.6	0.4	5		
Web Frame, Flg.	SWF-2	12	25	9	11.6	0.4	3.33		11.4	0.6	5		
Web Frame, Web	SWF-3	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 15

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Web Frame, Flg.	SWF-3	12	25	9	11.8	0.2	1.67		11.7	0.3	2.5		
Web Frame, Web	SWF-4	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Web Frame, Flg.	SWF-4	12	25	9	11.7	0.3	2.5		11.8	0.2	1.67		
Bracket, Web	BR-3	8	25	6	9.9	0	0		10	0	0		
Bracket, Flg	BR-3	12	25	9	11.8	0.2	1.67		11.5	0.5	4.17		
Bracket, Web	BR-4	8	25	6	7.7	0.3	3.75		8.1	0	0		
Vert. Column, Web	VS-1	8	25	6	8.4	0	0		8.5	0	0		
Vert. Column, Flg	VS-1	12	25	9	11.6	0.4	3.33		11.7	0.3	2.5		
Vert. Column, Web	VS-2	8	25	6	8.3	0	0		8.4	0	0		
Vert. Column, Flg.	Vs-2	12	25	9	11.7	0.3	2.5		11.6	0.4	3.33		
Long. BHD,	LB-1	7	25	5.3	7.9	0	0		7.9	0	0		
Long. BHD,	LB-2	7	25	5.3	7.8	0	0		7.9	0	0		
Long. BHD,	LB-3	7	25	5.3	7.7	0	0		8.1	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 14

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.4	0.6	3		19.4	0.6	3		
Underdeck Long., Web	UDL-1	10	25	7.5	11.6	0	0		11.5	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.6	0	0		11.4	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.9	0	0		11.8	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.4	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.6	0	0		11.9	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.4	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.7	0	0		11.9	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.9	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.7	0	0		11.6	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 14

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.7	0	0		11.6	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8.4	0	0		
Bracket, Web	BR-2	8	25	6	9.1	0	0		8.9	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.6	0	0		19.6	0	0		
Centre Long. girder, Web	G-2	10	25	7.5	8.8	1.2	12		8.8	1.2	12		
Web Frame, Flg.	WF-1	8	25	6	9.8	0	0		10.1	0	0		
Web Frame, Web	WF-1	8	25	6	9.8	0	0		10	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.7	0	0		9.9	0	0		
Web Frame, Web	WF-2	8	25	6	9.8	0	0		9	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.7	0.3	2.5		11.6	0.4	3.33		
Web Frame, Web	WF-3	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Web Frame, Flg.	WF-4	12	25	9	11.7	0.3	2.5		11.5	0.5	4.17		
Web Frame, Web	WF-4	8	25	6	7.9	0.1	1.25		7.7	0.3	3.75		
Web Frame, Flg.	WF-5	12	25	9	11.9	0.1	0.83		11.7	0.3	2.5		
Web Frame, Web	WF-5	8	25	6	7.7	0.3	3.75		7.9	0.1	1.25		
Web Frame, Flg.	WF-6	12	25	9	11.9	0.1	0.83		11.8	0.2	1.67		
Web Frame, Web	WF-6	8	25	6	7.7	0.3	3.75		7.7	0.3	3.75		
Bracket, Web	BR-3	10	25	7.5	9.8	0.2	2		9.9	0.1	1		
Bracket, Web	BR-4	8	25	6	8.6	0	0		8.6	0	0		
Vert. Column, Web	VS-1	7	25	5.3	7.8	0	0		7.9	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	7.8	0	0		8.1	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 14

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.9	0	0		7.9	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	7.8	0	0		8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 13

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.6	0.4	2		19.6	0.4	2		
Underdeck Long., Web	UDL-1	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.6	0	0		11.9	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.9	0	0		11.9	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.7	0	0		11.9	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.7	0	0		11.6	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 13

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.8	0	0		11.6	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8.2	0	0		
Bracket, Web	BR-2	8	25	6	9.1	0	0		8.6	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.4	0	0		19.4	0	0		
Centre Long. girder, Web	G-2	10	25	7.5	8.9	1.1	11		8.9	1.1	11		
Web Frame, Flg.	WF-1	8	25	6	9.8	0	0		10	0	0		
Web Frame, Web	WF-1	8	25	6	9.8	0	0		9.9	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.9	0	0		9.9	0	0		
Web Frame, Web	WF-2	8	25	6	9.8	0	0		9.9	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.8	0.2	1.67		11.4	0.6	5		
Web Frame, Web	WF-3	8	25	6	7.9	0.1	1.25		7.6	0.4	5		
Web Frame, Flg.	WF-4	12	25	9	11.8	0.2	1.67		11.4	0.6	5		
Web Frame, Web	WF-4	8	25	6	7.8	0.2	2.5		7.5	0.5	6.25		
Web Frame, Flg.	WF-5	12	25	9	11.6	0.4	3.33		11.8	0.2	1.67		
Web Frame, Web	WF-5	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Web Frame, Flg.	WF-6	12	25	9	11.6	0.4	3.33		11.7	0.3	2.5		
Web Frame, Web	WF-6	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Bracket, Web	BR-3	10	25	7.5	9.8	0.2	2		9.7	0.3	3		
Bracket, Web	BR-4	8	25	6	7.9	0.1	1.25		8.1	0	0		
Vert. Column, Web	VS-1	7	25	5.3	7.5	0	0		8	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	7.5	0	0		8.1	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 13

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.9	0	0		7.9	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	8	0	0		8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 12

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.8	0.2	1		19.8	0.2	1		
Underdeck Long., Web	UDL-1	10	25	7.5	12	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.9	0	0		11.9	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.6	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	12	0	0		11.8	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.5	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.7	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.9	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.9	0	0		11.6	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 12

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.7	0	0		11.6	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8	0	0		
Bracket, Web	BR-2	8	25	6	9.2	0	0		8.7	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.9	0	0		19.9	0	0		
Centre Long. girder, Web	G-2	10	25	7.5	8.8	1.2	12		8.8	1.2	12		
Web Frame, Flg.	WF-1	8	25	6	10	0	0		9.8	0	0		
Web Frame, Web	WF-1	8	25	6	10	0	0		9.9	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.8	0	0		9.6	0	0		
Web Frame, Web	WF-2	8	25	6	9.9	0	0		9.7	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.4	0.6	5		11.4	0.6	5		
Web Frame, Web	WF-3	8	25	6	7.5	0.5	6.25		7.5	0.5	6.25		
Web Frame, Flg.	WF-4	12	25	9	11.4	0.6	5		11.4	0.6	5		
Web Frame, Web	WF-4	8	25	6	7.5	0.5	6.25		7.3	0.7	8.75		
Web Frame, Flg.	WF-5	12	25	9	11.8	0.2	1.67		11.8	0.2	1.67		
Web Frame, Web	WF-5	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Web Frame, Flg.	WF-6	12	25	9	11.6	0.4	3.33		11.6	0.4	3.33		
Web Frame, Web	WF-6	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Bracket, Web	BR-3	10	25	7.5	9.2	0.8	8		9.2	0.8	8		
Bracket, Web	BR-4	8	25	6	8.6	0	0		8.6	0	0		
Vert. Column, Web	VS-1	7	25	5.3	8	0	0		8	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	8.1	0	0		8.1	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 12

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.9	0	0		7.9	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	7.9	0	0		7.9	0	0		
Side Shell, Plate	SS-1	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Side Shell, Plate	SS-2	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell, Plate	SS-3	8	30	5.6	7.9	0.1	1.25		8	0	0		
Side Shell, Plate	SS-4	8	30	5.6	8	0	0		8	0	0		
Side Shell, Plate	SS-5	8	30	5.6	8	0	0		7.9	0.1	1.25		
Side Shell, Plate	SS-6	8	30	5.6	8.5	0	0		8.7	0	0		
Side Shell, Plate	SS-7	8	30	5.6	8.4	0	0		8.5	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 11

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Centre, Web	G-1	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Underdeck Girder, Centre, Flg.	G-1	20	25	15	19.6	0.4	2		19.6	0.4	2		
Underdeck Long., Web	UDL-1	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-1	10	25	7.5	11.7	0	0		11.5	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-2	10	25	7.5	11.7	0	0		11.7	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-3	10	25	7.5	11.7	0	0		11.5	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.4	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-4	10	25	7.5	11.7	0	0		11.6	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.3	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-5	10	25	7.5	11.4	0	0		11.9	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.7	0	0		11.9	0	0		
Underdeck Long., Flg.	UDL-6	10	25	7.5	11.8	0	0		11.9	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.8	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-7	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.9	0	0		11.8	0	0		
Underdeck Long., Flg.	UDL-8	10	25	7.5	11.9	0	0		11.8	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Flg.	UDL-9	10	25	7.5	11.6	0	0		11.6	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.8	0	0		11.6	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 11

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long., Flg.	UDL-10	10	25	7.5	11.6	0	0		11.7	0	0		
Bracket, Web	BR-1	8	25	6	8	0	0		8.3	0	0		
Bracket, Web	BR-2	8	25	6	9.1	0	0		8.6	0	0		
Centre Long. girder, Flg.	G-2	16	25	12	19.9	0	0		19.9	0	0		
Centre Long. girder, Web	G-2	10	25	7.5	8.8	1.2	12		8.8	1.2	12		
Web Frame, Flg.	WF-1	8	25	6	9.6	0	0		9.9	0	0		
Web Frame, Web	WF-1	8	25	6	9.7	0	0		9.9	0	0		
Web Frame, Flg.	WF-2	8	25	6	9.7	0	0		10	0	0		
Web Frame, Web	WF-2	8	25	6	9.7	0	0		9.9	0	0		
Web Frame, Flg.	WF-3	12	25	9	11.7	0.3	2.5		11.5	0.5	4.17		
Web Frame, Web	WF-3	8	25	6	7.9	0.1	1.25		7.7	0.3	3.75		
Web Frame, Flg.	WF-4	12	25	9	11.8	0.2	1.67		11.5	0.5	4.17		
Web Frame, Web	WF-4	8	25	6	7.9	0.1	1.25		7.6	0.4	5		
Web Frame, Flg.	WF-5	12	25	9	11.7	0.3	2.5		11.6	0.4	3.33		
Web Frame, Web	WF-5	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Web Frame, Flg.	WF-6	12	25	9	11.6	0.4	3.33		11.7	0.3	2.5		
Web Frame, Web	WF-6	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Bracket, Web	BR-3	10	25	7.5	9.7	0.3	3		9.8	0.2	2		
Bracket, Web	BR-4	8	25	6	7.6	0.4	5		8.7	0	0		
Vert. Column, Web	VS-1	7	25	5.3	7.9	0	0		7.8	0	0		
Vert. Column, Flg	VS-1	7	25	5.3	7.8	0	0		7.8	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM4 – Transverse Structural Members & Attached Longitudinal Structure

Space / Compartment Description :	Aft Peak
Location of Structure :	Transverse Web - Frame No. 11

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Column, Web	VS-2	7	25	5.3	7.7	0	0		7.7	0	0		
Vert. Column, Flg.	Vs-2	7	25	5.3	7.7	0	0		7.7	0	0		
Side Shell, Plate	SS-1	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell, Plate	SS-2	8	30	5.6	7.9	0.1	1.25		7.8	0.2	2.5		
Side Shell, Plate	SS-3	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
Side Shell, Plate	SS-4	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell, Plate	SS-5	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
Side Shell, Plate	SS-6	8	30	5.6	8.2	0	0		8.3	0	0		
Side Shell, Plate	SS-7	8	30	5.6	8.5	0	0		8.4	0	0		
Side Shell, Plate	SS-8	8	30	5.6	9	0	0		8.5	0	0		
Side Shell, Plate	SS-9	8	30	5.6	9.1	0	0		8.6	0	0		
Side Shell, Plate	SS-10	8	30	5.6	8.1	0	0		7.9	0.1	1.25		
Side Shell, Plate	SS-11	8	30	5.6	9.8	0	0		9.8	0	0		
Side Shell, Plate	SS-12	8	30	5.6	9.8	0	0		9.9	0	0		
Side Shell, Plate	SS-13	12	30	8.4	11.6	0.4	3.33		11.5	0.5	4.17		
Side Shell, Plate	SS-14	12	30	8.4	11.3	0.7	5.83		11.4	0.6	5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 10
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Center, Web	G1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Underdeck Girder, Centre, Flg.	G1	20	25	15	19.4	0.6	3		19.4	0.6	3		
Underdeck Long., Web	UDL-1	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long,, Flg.	UDL-1	10	25	7.5	11.7	0	0		11.9	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.1	0	0		11.7	0	0		
Underdeck Long,, Flg.	UDL-2	10	25	7.5	11.2	0	0		11.9	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.3	0	0		11.5	0	0		
Underdeck Long,, Flg.	UDL-3	10	25	7.5	11.4	0	0		11.5	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.5	0	0		11.4	0	0		
Underdeck Long,, Flg.	UDL-4	10	25	7.5	11.6	0	0		11.5	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11	0	0		11.7	0	0		
Underdeck Long,, Flg.	UDL-5	10	25	7.5	11.1	0	0		11.7	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.6	0	0		11.6	0	0		
Underdeck Long,, Flg.	UDL-6	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.9	0	0		11.7	0	0		
Underdeck Long,, Flg.	UDL-7	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long,, Flg.	UDL-8	10	25	7.5	11.6	0	0		11.7	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.6	0	0		11.5	0	0		
Underdeck Long,, Flg.	UDL-9	10	25	7.5	11.8	0	0		11.6	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.7	0	0		11.5	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 10
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long,, Flg.	UDL-10	10	25	7.5	11.5	0	0		11.5	0	0		
Bracket, Web	B-1	8	25	6	7.9	0.1	1.25		8	0	0		
UDL, Bracket, Web	UB-1	8	25	6	7.7	0.3	3.75		7.9	0.1	1.25		
UDL, Bracket, Web	UB-2	8	25	6	7.8	0.2	2.5		8	0	0		
UDL, Bracket, Web	UB-3	8	25	6	7.8	0.2	2.5		8	0	0		
UDL, Bracket, Web	UB-4	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
UDL, Bracket, Web	UB-5	8	25	6	7.8	0.2	2.5		9	0	0		
UDL, Bracket, Web	UB-6	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
UDL, Bracket, Web	UB-7	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
UDL, Bracket, Web	UB-8	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
UDL, Bracket, Web	UB-9	8	25	6	8	0	0		7.7	0.3	3.75		
UDL, Bracket, Web	UB-10	8	25	6	8	0	0		7.6	0.4	5		
Side Shell, Plate	SS1	12	30	8.4	11.8	0.2	1.67		11.8	0.2	1.67		
Side Shell, Plate	SS2	12	30	8.4	11.6	0.4	3.33		11.8	0.2	1.67		
Side Shell, Plate	SS3	8	30	5.6	10	0	0		10	0	0		
Side Shell, Plate	SS4	8	30	5.6	9.9	0	0		9.9	0	0		
Side Shell, Plate	SS5	8	30	5.6	8.2	0	0		8.3	0	0		
BHD, Plate	P1	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
BHD, Plate	P2	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
BHD, Plate	P3	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
BHD, Plate	P4	8	30	5.6	7.8	0.2	2.5		7.8	0.2	2.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 10
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
BHD, Plate	P5	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
BHD, Plate	P6	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
BHD, Plate	P7	8	30	5.6	7.7	0.3	3.75		7.8	0.2	2.5		
BHD, Plate	P8	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
BHD, Plate	P9	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
BHD, Plate	P10	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
BHD, Plate	P11	8	30	5.6	7.2	0.8	10		7.3	0.7	8.75		
BHD, Plate	P12	8	30	5.6	7.5	0.5	6.25		10	0	0		
BHD, Plate	P13	8	30	5.6	7.5	0.5	6.25		7.5	0.5	6.25		
BHD, Plate	P14	8	30	5.6	7.4	0.6	7.5		7.3	0.7	8.75		
BHD, Plate	P15	8	30	5.6	7.5	0.5	6.25		7.6	0.4	5		
BHD, Plate	P16	8	30	5.6	7.6	0.4	5		7.7	0.3	3.75		
Main Deck, Plate	D-1	12	30	8.4	11.7	0.3	2.5		11.8	0.2	1.67		
Main Deck, Plate	D-2	12	30	8.4	11.9	0.1	0.83		11.5	0.5	4.17		
Main Deck, Plate	D-3	12	30	8.4	11.7	0.3	2.5		11.4	0.6	5		
Main Deck, Plate	D-4	12	30	8.4	11.1	0.9	7.5		11.3	0.7	5.83		
Main Deck, Plate	D-5	12	30	8.4	11.2	0.8	6.67		11.2	0.8	6.67		
Main Deck, Plate	D-6	12	30	8.4	11.3	0.7	5.83		11.6	0.4	3.33		
Main Deck, Plate	D-7	12	30	8.4	11.4	0.6	5		11.8	0.2	1.67		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 20
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Girder, Center, Web	G1	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Underdeck Girder, Centre, Flg.	G1	20	25	15	19.7	0.3	1.5		19.7	0.3	1.5		
Underdeck Long., Web	UDL-1	10	25	7.5	11.9	0	0		11.3	0	0		
Underdeck Long,, Flg.	UDL-1	10	25	7.5	11.7	0	0		11.3	0	0		
Underdeck Long., Web	UDL-2	10	25	7.5	11.7	0	0		11.4	0	0		
Underdeck Long,, Flg.	UDL-2	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Web	UDL-3	10	25	7.5	11.6	0	0		11.4	0	0		
Underdeck Long,, Flg.	UDL-3	10	25	7.5	11.7	0	0		11.5	0	0		
Underdeck Long., Web	UDL-4	10	25	7.5	11.8	0	0		11.4	0	0		
Underdeck Long,, Flg.	UDL-4	10	25	7.5	11.7	0	0		11.5	0	0		
Underdeck Long., Web	UDL-5	10	25	7.5	11.4	0	0		11.8	0	0		
Underdeck Long,, Flg.	UDL-5	10	25	7.5	11.3	0	0		11.9	0	0		
Underdeck Long., Web	UDL-6	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long,, Flg.	UDL-6	10	25	7.5	11.4	0	0		11.8	0	0		
Underdeck Long., Web	UDL-7	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long,, Flg.	UDL-7	10	25	7.5	11.7	0	0		11.8	0	0		
Underdeck Long., Web	UDL-8	10	25	7.5	11.8	0	0		11.4	0	0		
Underdeck Long,, Flg.	UDL-8	10	25	7.5	11.6	0	0		11.8	0	0		
Underdeck Long., Web	UDL-9	10	25	7.5	11.9	0	0		11.8	0	0		
Underdeck Long,, Flg.	UDL-9	10	25	7.5	11.8	0	0		11.8	0	0		
Underdeck Long., Web	UDL-10	10	25	7.5	11.8	0	0		11.9	0	0		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 20
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Underdeck Long,, Flg.	UDL-10	10	25	7.5	11.8	0	0		11.8	0	0		
Bracket, Web	B-1	8	25	6									NO PLATE IN AREA.
Side Shell, Plate	SS1	8	30	5.6	7.6	0.4	5		7.5	0.5	6.25		
Side Shell, Plate	SS2	8	30	5.6	7.7	0.3	3.75		7.4	0.6	7.5		
Side Shell, Plate	SS3	8	30	5.6	7.8	0.2	2.5		7.6	0.4	5		
Side Shell, Plate	SS4	8	30	5.6	7.7	0.3	3.75		7.7	0.3	3.75		
Side Shell, Plate	SS5	8	30	5.6	7.8	0.2	2.5		7.7	0.3	3.75		
Side Shell, Plate	SS6	8	30	5.6	9.3	0	0		9.9	0	0		
Side Shell, Plate	SS7	8	30	5.6	9.4	0	0		9.5	0	0		
Side Shell, Plate	SS8	8	30	5.6	9.6	0	0		9.7	0	0		
Side Shell, Plate	SS9	8	30	5.6	9.7	0	0		9.7	0	0		
Side Shell, Plate	SS10	12	30	8.4	11.4	0.6	5		11.6	0.4	3.33		
Side Shell, Plate	SS11	12	30	8.4	11.3	0.7	5.83		11.7	0.3	2.5		
BHD, Plate	P1	8	30	5.6	7.9	0.1	1.25		8	0	0		
BHD, Plate	P2	8	30	5.6	7.9	0.1	1.25		8	0	0		
BHD, Plate	P3	8	30	5.6	7.9	0.1	1.25		8	0	0		
BHD, Plate	P4	8	30	5.6	7.9	0.1	1.25		8	0	0		
BHD, Plate	P5	8	30	5.6	7.9	0.1	1.25		8	0	0		
BHD, Plate	P6	8	30	5.6	7.6	0.4	5		7.9	0.1	1.25		
BHD, Plate	P7	8	30	5.6	7.9	0.1	1.25		7.9	0.1	1.25		
BHD, Plate	P8	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 20
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
BHD, Plate	P9	8	30	5.6	7.8	0.2	2.5		8	0	0		
BHD, Plate	P10	8	30	5.6	7.8	0.2	2.5		8	0	0		
BHD, Plate	P11	8	30	5.6	7.8	0.2	2.5		7.9	0.1	1.25		
BHD, Plate	P12	8	30	5.6	7.5	0.5	6.25		7.9	0.1	1.25		
BHD, Plate	P13	8	30	5.6	7.6	0.4	5		8	0	0		
Main Deck, Plate	D-1	12	30	8.4	11.3	0.7	5.83		11.5	0.5	4.17		
Main Deck, Plate	D-2	12	30	8.4	11.3	0.7	5.83		11.1	0.9	7.5		
Main Deck, Plate	D-3	12	30	8.4	11.8	0.2	1.67		11.8	0.2	1.67		
Main Deck, Plate	D-4	12	30	8.4	11.3	0.7	5.83		11.1	0.9	7.5		
Vert. Stillf., Web	VS-1 U	8	25	6	7.9	0.1	1.25		8	0	0		
Vert. Stiff., Flg	VS-1 U	8	25	6	8	0	0		8	0	0		
Vert. Stillf., Web	VS-1 L	8	25	6	7.9	0.1	1.25		7.9	0.1	1.25		
Vert. Stiff., Flg	VS-1 L	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Vert. Stillf., Web	VS-2 U	8	25	6	7.7	0.3	3.75		7.9	0.1	1.25		
Vert. Stiff., Flg	VS-2 U	8	25	6	7.7	0.3	3.75		8	0	0		
Vert. Stillf., Web	VS-2 L	8	25	6	7.3	0.7	8.75		7.8	0.2	2.5		
Vert. Stiff., Flg	VS-2 L	8	25	6	7.7	0.3	3.75		7.8	0.2	2.5		
Vert. Stillf., Web	VS-3 U	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Vert. Stiff., Flg	VS-3 U	8	25	6	7.3	0.7	8.75		7.8	0.2	2.5		
Vert. Stillf., Web	VS-3 L	8	25	6	7.9	0.1	1.25		7.8	0.2	2.5		
Vert. Stiff., Flg	VS-3 L	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 20
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Stillf., Web	VS-4 U	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Vert. Stiff., Flg	VS-4 U	8	25	6	7.8	0.2	2.5		7.5	0.5	6.25		
Vert. Stillf., Web	VS-4 L	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Vert. Stiff., Flg	VS-4 L	8	25	6	7.9	0.1	1.25		7.7	0.3	3.75		
Vert. Stillf., Web	VS-5 U	8	25	6	7.6	0.4	5		7.6	0.4	5		
Vert. Stiff., Flg	VS-5 U	8	25	6	7.8	0.2	2.5		7.8	0.2	2.5		
Vert. Stillf., Web	VS-5 L	8	25	6	7.9	0.1	1.25		6.9	1.1	13.75		
Vert. Stiff., Flg	VS-5 L	8	25	6	7.3	0.7	8.75		8	0	0		
Vert. Stillf., Web	VS-6 U	8	25	6	7.5	0.5	6.25		7.8	0.2	2.5		
Vert. Stiff., Flg	VS-6 U	8	25	6	7.5	0.5	6.25		7.8	0.2	2.5		
Vert. Stillf., Web	VS-6 L	8	25	6	7.1	0.9	11.25		7	1	12.5		
Vert. Stiff., Flg	VS-6 L	8	25	6	7	1	12.5		7.1	0.9	11.25		
Vert. Stillf., Web	VS-7 U	8	25	6	7.8	0.2	2.5		7.3	0.7	8.75		
Vert. Stiff., Flg	VS-7 U	8	25	6	7.7	0.3	3.75		7.5	0.5	6.25		
Vert. Stillf., Web	VS-7 L	8	25	6	7.5	0.5	6.25		7.2	0.8	10		
Vert. Stiff., Flg	VS-7 L	8	25	6	7.3	0.7	8.75		7.2	0.8	10		
Vert. Stillf., Web	VS-8 U	8	25	6	7.8	0.2	2.5		7.7	0.3	3.75		
Vert. Stiff., Flg	VS-8 U	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Vert. Stillf., Web	VS-8 L	8	25	6	7.5	0.5	6.25		7.3	0.7	8.75		
Vert. Stiff., Flg	VS-8 L	8	25	6	7.5	0.5	6.25		7.3	0.7	8.75		
Vert. Stillf., Web	VS-9 U	8	25	6	7.4	0.6	7.5		7.7	0.3	3.75		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 20
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Stiff., Flg	VS-9 U	8	25	6	7.7	0.3	3.75		7.8	0.2	2.5		
Vert. Stillf., Web	VS-9 L	8	25	6	7.6	0.4	5		7.3	0.7	8.75		
Vert. Stiff., Flg	VS-9 L	8	25	6	7.5	0.5	6.25		7.4	0.6	7.5		
Vert. Stillf., Web	VS-10 U	8	25	6	7.5	0.5	6.25		7.6	0.4	5		
Vert. Stiff., Flg	VS-10 U	8	25	6	7.5	0.5	6.25		7.8	0.2	2.5		
Vert. Brkts, at UDL, Web	B-UDL1	8	25	6	8.5	0	0		9.1	0	0		
Vert. Brkts, at UDL, Web	B-UDL2	8	25	6	8	0	0		8.2	0	0		
Vert. Brkts, at UDL, Web	B-UDL3	8	25	6	8	0	0		8.1	0	0		
Vert. Brkts, at UDL, Web	B-UDL4	8	25	6	8	0	0		8.1	0	0		
Vert. Brkts, at UDL, Web	B-UDL5	8	25	6	7.7	0.3	3.75		7.8	0.2	2.5		
Vert. Brkts, at UDL, Web	B-UDL6	8	25	6	8.1	0	0		7.8	0.2	2.5		
Vert. Brkts, at UDL, Web	B-UDL6	8	25	6	8.2	0	0		7.8	0.2	2.5		
Vert. Brkts, at UDL, Web	B-UDL7	8	25	6	8.8	0	0		7.7	0.3	3.75		
Vert. Brkts, at UDL, Web	B-UDL8	8	25	6	8.7	0	0		7.7	0.3	3.75		
Vert. Brkts, at UDL, Web	B-UDL9	8	25	6	7.7	0.3	3.75		7.7	0.3	3.75		
Vert. Brkts, at UDL, Web	B-UDL10	8	25	6	8.9	0	0		7.7	0.3	3.75		
Vert. Brkts - Vert. Stiff, low	B-LOW1	8	25	6	7.5	0.5	6.25		7.4	0.6	7.5		
Vert. Brkts - Vert. Stiff, low	B-LOW2	8	25	6	7.5	0.5	6.25		7.5	0.5	6.25		
Vert. Brkts - Vert. Stiff, low	B-LOW-3	8	25	6	7.6	0.4	5		7.4	0.6	7.5		
Vert. Brkts - Vert. Stiff, low	B-LOW4	8	25	6	7.8	0.2	2.5		7.9	0.1	1.25		
Vert. Brkts - Vert. Stiff, low	B-LOW5	8	25	6	7.2	0.8	10		7.1	0.9	11.25		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM5 - W.T. & O.T. Transverse Bulkheads

Space / Compartment Description :	Aft Peak
Location of Structure :	Frame No. 20
Type of Bulkhead :	Transverse Bulkhead

Structural Component (Plating / Stiffener)	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Vert. Brkts - Vert. Stiff, low	B-LOW6	8	25	6	7.3	0.7	8.75		7.1	0.9	11.25		
Vert. Brkts - Vert. Stiff, low	B-LOW7	8	25	6	7.7	0.3	3.75		7.7	0.3	3.75		
Vert. Brkts - Vert. Stiff, low	B-LOW8	8	25	6	7.6	0.4	5		7.7	0.3	3.75		
FRAME 20 FROM INSIDE ENGINE RM	E/R BHDAFT												
BHD, Plate	P1	10	30	7	7.9	2.1	21		8.1	1.9	19		
BHD, Plate	P2	10	30	7	7.9	2.1	21		8	2	20		
BHD, Plate	P3	10	30	7	7.9	2.1	21		8	2	20		
BHD, Plate	P4	10	30	7	8	2	20		8.1	1.9	19		
BHD, Plate	P5	10	30	7	7.9	2.1	21		8	2	20		
BHD, Plate	P6	10	30	7	7.9	2.1	21		7.9	2.1	21		
BHD, Plate	P7	10	30	7	8	2	20		8	2	20		
BHD, Plate	P8	10	30	7	7.9	2.1	21		8	2	20		
BHD, Plate	P9	10	30	7	7.9	2.1	21		8	2	20		
Side Shell, Plate	ER-SS1	9	30	6.3	9.7	0	0		9.7	0	0		
Side Shell, Plate	ER-SS2	9	30	6.3	9.7	0	0		9.8	0	0		
Side Shell, Plate	ER-SS3	12	30	8.4	9.6	2.4	20		9.9	2.1	17.5		
Side Shell, Plate	ER-SS4	12	30	8.4	11.9	0.1	0.83		11.8	0.2	1.67		
Side shell, Plate	ER-SS5	12	30	8.4	11.7	0.3	2.5		11.8	0.2	1.67		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Keel Plates and Additional Bottom Plates - Keel Plates

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Keel Plates
Location of Structure :	Bottom Keel Plates

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
	Frame no's												
Keel Plates, Btm, Aft Readings	-7 to 0	12	30	8.4	10.4	1.6	13.33		10.4	1.6	13.33		
Keel Plates, Btm, Fwd Readings		12	30	8.4	10.8	1.2	10		10.7	1.3	10.83		
Keel Plates, Btm, Aft Readings	0 to 10	12	30	8.4	11.6	0.4	3.33		11.5	0.5	4.17		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.4	0.6	5		11.3	0.7	5.83		
Keel Plates, Btm, Aft Readings	10 to 26	12	30	8.4	11.5	0.5	4.17		11.4	0.6	5		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.3	0.7	5.83		11.3	0.7	5.83		
Keel Plates, Btm, Aft Readings	26 to 29	12	30	8.4	11.4	0.6	5		11.3	0.7	5.83		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.5	0.5	4.17		11.4	0.6	5		
Keel Plates, Btm, Aft Readings	29 to 28	12	30	8.4	11.5	0.5	4.17		11.5	0.5	4.17		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.4	0.6	5		11.3	0.7	5.83		
Keel Plates, Btm, Aft Readings	38 to 42	12	30	8.4	11.2	0.8	6.67		11.1	0.9	7.5		
Keel Plates, Btm, Fwd Readings		12	30	8.4	10.9	1.1	9.17		10.8	1.2	10		
Keel Plates, Btm, Aft Readings	42 to 50	12	30	8.4	11.4	0.6	5		11.3	0.7	5.83		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.6	0.4	3.33		11.7	0.3	2.5		
Keel Plates, Btm, Aft Readings	50 to 61	12	30	8.4	11.7	0.3	2.5		11.8	0.2	1.67		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.4	0.6	5		11.5	0.5	4.17		
Keel Plates, Btm, Aft Readings	61 to 66	12	30	8.4	11.6	0.4	3.33		11.5	0.5	4.17		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.7	0.3	2.5		11.4	0.6	5		
Keel Plates, Btm, Aft Readings	66 to 74	12	30	8.4	11.5	0.5	4.17		11.2	0.8	6.67		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.4	0.6	5		11.1	0.9	7.5		

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Keel Plates
Location of Structure :	Bottom Keel Plates

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Keel Plates, Btm, Aft Readings	74 to 82	12	30	8.4	11.3	0.7	5.83		11.2	0.8	6.67		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11.4	0.6	5		11.4	0.6	5		
Keel Plates, Btm, Aft Readings	82 to 90	12	30	8.4	11	1	8.33		10.8	1.2	10		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11	1	8.33		11	1	8.33		
Keel Plates, Btm, Aft Readings	90 to 102	12	30	8.4	10.9	1.1	9.17		11	1	8.33		
Keel Plates, Btm, Fwd Readings		12	30	8.4	10.7	1.3	10.83		10.8	1.2	10		
Keel Plates, Btm, Aft Readings	102 to 107	12	30	8.4	11.4	0.6	5		11.3	0.7	5.83		
Keel Plates, Btm, Fwd Readings		12	30	8.4	11	1	8.33		11.4	0.6	5		
Keel Plates, Btm, Aft Readings	107 to 112	12	30	8.4	11.1	0.9	7.5		11.1	0.9	7.5		
Keel Plates, Btm, Fwd Readings		12	30	8.4	10.7	1.3	10.83		10.8	1.2	10		
Keel Plates, Btm, Aft Readings	112 to 115	12	30	8.4	11.4	0.6	5		11.5	0.5	4.17		
Keel Plates, Btm, Fwd Readings					12				12				

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Sea Chests and Side Shell Plating IWO Overboard Discharges - Sea Chests

TM Forms

Ship's Name : NORTHERN SEA WOLF | LR/IMO Number : 9212450 | TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Sea Chests
Location of Structure :	AFT SEACHESTS

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Fwd Plate					12.1				12.2				
Aft Plate					12				12				
Inboard Plate					12				12				
Outboard Plate					12.1				12.1				
Top Plate					12				12				

Excessive Diminution | Substantial Corrosion | Renewed As Built | Renewed other than As Built | Missing Reading | Abnormally High Reading | Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Sea Chests
Location of Structure :	Fwd Sea Chests - Port and Stbd Sides

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Port side Sea chest - Aft Pl.					10								
Port side Sea Chest -Fwd Pl.					10								
Port side Sea Chest Inbd Pl.					9.7								
Port side Sea Chest Top Pl.					9.9								
Stbd side Sea Chest - Aft. Pl.									12.1				
Stbd side Sea Chest - Fwd. Pl.									12				
Stbd. side Sea Chest - Inbd Pl									12				
Stbd side Sea Chest - Outd. Pl									12.1				
Stbd side Sea Chest - Top pl.									12				

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Sea Chests and Side Shell Plating IWO Overboard Discharges - Side Shell Plating IWO Overboard Discharges

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Side Shell Plating IWO Overboard Discharges
Location of Structure :	Various by Frame No.

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Frame 111													
- Top plate		8	30	5.6					8.2	0	0		
- Fwd. plate		8	30	5.6					8.2	0	0		
- Btm. plate		8	30	5.6					8.2	0	0		
- Aft. plate		8	30	5.6					8.2	0	0		
Frame 65													
- Top plate		8	30	5.6					8.1	0	0		
- Fwd. plate		8	30	5.6					8.1	0	0		
- Btm. plate		8	30	5.6					8.1	0	0		
- Aft. plate		8	30	5.6					7.8	0.2	2.5		
Frame 36													
- Top plate		8	30	5.6					8.3	0	0		
- Fwd. plate		8	30	5.6					8.4	0	0		
- Btm. plate		8	30	5.6					8.2	0	0		
- Aft. plate		8	30	5.6					8.1	0	0		
Frame 27													
- Top plate		8	30	5.6					8.4	0	0		
- Fwd. plate		8	30	5.6					8.4	0	0		
- Btm. plate		8	30	5.6					8.2	0	0		
- Aft. plate		8	30	5.6					8.3	0	0		
Frame 23													

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Side Shell Plating IWO Overboard Discharges
Location of Structure :	Various by Frame No.

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
- Top plate		8	30	5.6					7.6	0.4	5		
- Fwd. plate		8	30	5.6					7.7	0.3	3.75		
- Btm. plate		8	30	5.6					7.8	0.2	2.5		
- Aft. plate		8	30	5.6					7.6	0.4	5		
Frame 107													
- Top plate		8	30	5.6	7.9	0.1	1.25						
- Fwd. plate		8	30	5.6	7.9	0.1	1.25						
- Btm. plate		8	30	5.6	7.9	0.1	1.25						
- Aft. plate		8	30	5.6	7.9	0.1	1.25						
Frame 61													
- Top plate		8	30	5.6	8	0	0						
- Fwd. plate		8	30	5.6	8	0	0						
- Btm. plate		8	30	5.6	8	0	0						
- Aft. plate		8	30	5.6	7.9	0.1	1.25						
Frame 35													
- Top plate		8	30	5.6	8.1	0	0						
- Fwd. plate		8	30	5.6	8	0	0						
- Btm. plate		8	30	5.6	8.1	0	0						
- Aft. plate		8	30	5.6	8.1	0	0						
Frame 30													
- Top plate		8	30	5.6	8.2	0	0						

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	Side Shell Plating IWO Overboard Discharges
Location of Structure :	Various by Frame No.

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
- Fwd. plate		8	30	5.6	8.2	0	0						
- Btm. plate		8	30	5.6	8.2	0	0						
- Aft. plate		8	30	5.6	8.2	0	0						
Frame 27													
- Top plate		8	30	5.6	8.1	0	0						
- Fwd. plate		8	30	5.6	8	0	0						
- Btm. plate		8	30	5.6	8.1	0	0						
- Aft. plate		8	30	5.6	8.2	0	0						

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

Critical and Suspect Areas - A/C Room No. 2

TM Forms

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	A/C Room No. 2
Location of Structure :	Aft Bulkhead and Floor Plates

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Bhd-Fr. 60 50mm from floor	B1	6.4	30	4.5	5.6	0.8	12.5						Assumed Nominal
Bhd-Fr. 60 50mm from floor	B2	6.4	30	4.5	5.5	0.9	14.06						(Typical)
Bhd-Fr. 60 50mm from floor	B3	6.4	30	4.5	5.1	1.3	20.31						
Bhd-Fr. 60 50mm from floor	B4	6.4	30	4.5	5.5	0.9	14.06						
Bhd-Fr. 60 50mm from floor	B5	6.4	30	4.5	4.9	1.5	23.44	6.4					
Bhd-Fr. 60 50mm from floor	B6	6.4	30	4.5	0	6.4	100	6.4					Hole in bulkhead
Bhd-Fr. 60 50mm from floor	B7	6.4	30	4.5	3.5	2.9	45.31	6.4					
Bhd-Fr. 60 50mm from floor	B8	6.4	30	4.5	3.8	2.6	40.63	6.4					
Bhd-Fr. 60 50mm from floor	B9	6.4	30	4.5	2.9	3.5	54.69	6.4					
Bhd-Fr. 60 50mm from floor	B10	6.4	30	4.5	5.1	1.3	20.31	6.4					
Bhd-Fr. 60 50mm from floor	B11	6.4	30	4.5	4.9	1.5	23.44	6.4					
Bhd-Fr. 60 50mm from floor	B12	6.4	30	4.5	3.4	3	46.88	6.4					
Bhd-Fr. 60 50mm from floor	B13	6.4	30	4.5	0	6.4	100	6.4					Hole in Bulkhead
Floor Plate	P1	6.4	30	4.5	6.7	0	0						
Floor Plate	P2	6.4	30	4.5	6.8	0	0						
Floor Plate	P3	6.4	30	4.5	6.4	0	0						
Floor Plate	P4	6.4	30	4.5	6.8	0	0						
Floor Plate	P5	6.4	30	4.5	6.6	0	0						
Floor Plate	P6	6.4	30	4.5	6.6	0	0						
Floor Plate	P7	6.4	30	4.5	6.4	0	0						
Floor Plate	P8	6.4	30	4.5	6.6	0	0						

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :

Ship's Name : NORTHERN SEA WOLF LR/IMO Number : 9212450 TM Report No : VCR1800005

TM6 - Miscellaneous Structural Members

Space / Compartment Description :	A/C Room No. 2
Location of Structure :	Aft Bulkhead and Floor Plates

Structural Component	Sketch Reference ID	As Built Thickness (mm)	Max Allowable Diminution (%)	Renewal Thickness (mm)	Port Reading				Starboard Reading				Comments
					Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	Gauged Thickness (mm)	Diminution (mm)	Diminution (%)	Thickness As Renewed (mm)	
Floor Plate	P9	6.4	30	4.5	6.6	0	0						
Floor Plate	P10	6.4	30	4.5	6.5	0	0						
Floor Plate	P11	6.4	30	4.5	6.4	0	0						
Floor Plate	P12	6.4	30	4.5	6.4	0	0						
Floor Plate	P13	6.4	30	4.5	6.5	0	0						
Floor Plate	P14	6.4	30	4.5	6.6	0	0						
Floor Plate	P15	6.4	30	4.5	6.7	0	0						
Floor Plate	P16	6.4	30	4.5	6.4	0	0						
Floor Plate	P17	6.4	30	4.5	6.6	0	0						
Floor Plate	P18	6.4	30	4.5	6.5	0	0						
Floor Plate	P19	6.4	30	4.5	6.4	0	0						
Floor Plate	P20	6.4	30	4.5	6.4	0	0						
Floor Plate	P21	6.4	30	4.5	6.4	0	0						

Excessive Diminution Substantial Corrosion Renewed As Built Renewed other than As Built Missing Reading Abnormally High Reading Deck Buckling Failure

Name of TM Operator : Emile Dehard

Name of LR Attending Surveyor :