Original Record of Particulars for *Harvest Hope*,
produced by Bureau Veritas on completion of build

Form FV 2 32(b)

RECORD OF PARTICULARS OF A FISHING VESSEL

RECEIVED

UNDER 24.4 METRES

Name ..... " HARVEST HOPE "

Official Number ..... PD 120

Fishing Letters and Numbers ..... B 14269

Classification Society ..... BUREAU VERITAS

BUREAU-VERITAS SURVEYORS AT PARIS 1828 SZCZECIN REGISTRE INTERNATIONAL

Name and Address of ..... &

Owner, Managing Owner ..... OTHERS

or Agent ..... PETERHEAD / SCOTLAND

.....

Dimensions	Registered	Principal
Length	24,33 m	
Breadth	8,78 m	
Depth	7,38 m	

Date Keel Laid ..... 27 JANUARY 1995

PART II, D, E, F, G

M.E. REV – 1000 RPM
SHAFT ~~GEAR~~ REV – 200 RPM

MAIN AND AUXILIARY MACHINERY

Number	Manufacturer's Name and Type	Max. cont. rating
ONE	..Main Engines STORK – WARTSILA DIESEL 4-STROKE COMBUSTION SINGLE-AC. 6FHD 240G	1105 KW 1502,8 BHP
TAILSHAFT – MATERIAL St. 60.2N WEIGHT 705 kg F5810 DIAMETER – ⌀ 210 ⌀ 204 ⌀ 200 REDUCTION RATIO 5 : 1		600/4 HUB

	Auxiliary Engines		Purpose
N°1	CATERPILLAR 3306 B-T	123 KW = 167,3 BHP	– EL-GEN
N°2	CATERPILLAR 3306 B-T	123 KW = 167,3 BHP	– EL-GEN

Total Installed BHP 1837,4

BILGE PUMPS

	Description	Capacity
1.	BILGE PUMP – DESMI –	25 m³/h = 416 ltr/min
	TYPE S-80-70-220/A02-2	
2.	GENERAL SERVICE PUMP – DESMI –	
	TYPE S-80-70-125/A02	25 m³/h = 416 ltr/min.
	03 JAN 1996	

BILGE SUCTIONS ER – 80 mm FISH HOLD – 50 mm
Size of bilge main/s .....

	Compartment	Size of Suction to Compartment
(I)	ENGINE ROOM	
1	MAIN BILGE PUMP	⌀ 80 mm
2	MAIN G.S. PUMP	⌀ 80 mm
3	EMERGENCY HAND P.	⌀ 32 mm
4	EMERGENCY G.S. PUMP	⌀ 80 mm
5.	BILGE WATER SEPARATOR	⌀ 25 mm
(II)	FISH HOLD	
1	PS BILGE WELL	⌀ 50 mm
2	STB BILGE WELL	⌀ 50 mm
3	BOW THRUSTER MAIN	⌀ 50 mm
4.	BOW THR. → BWS	⌀ 25 mm
5.	EMERGENCY HAND PUMP	⌀ 32 mm
6.	FISH CUTTING COMP EMERGENCY HAND PUMP	⌀ 32 mm
(III)	STEERING GEAR ROOM	⌀ 50 mm
(IV)	NET DRUMS COMPARTMENT	PS – ⌀ 50 mm STB – ⌀ 50 mm
(V)	UPPER DECK	PS – ⌀ 50 mm STB ⌀ 50 mm

DOORS FITTED IN OUTER WATERTIGHT STRUCTURE (ie structures contributing to buoyancy or protecting openings leading to spaces below deck)

	Where fitted	Height of Casings	Size of Door Openings	Height of Sills	Type of Door	Operate both sides
	Freeboard Deck					
1.	BATTERY ROOM	1900	1300 x 650	560	WATERTIGHT P7U	YES
2.	CO_2 ROOM	1900	1300x650	560	WATERTIGHT L7U	YES
3	EMERGENCY EXIT FROM ENGINE ROOM	1900	1300x650	560	WATERTIGHT L7U	YES
4.	CORRIDOR	1900	1300x650	560	WATERTIGHT P7U	YES
5.	ENGINE ROOM	2050	1650x650	360	WATERTIGHT & GASTIGHT L7	YES
6.	FORWARD STORE FROM FISH GUTTING COMPARTMENT	1900	1300x650	560	WATERTIGHT P7U	YES
7	CHANGING ROOM FROM FISH GUTTING COMPART.	1900	1300x650	560	WATERTIGHT P7U	YES
	UPPER DECK					
8.	STB STORE AFT.	1930	1480x680	450	WATERTIGHT R-WT-A	YES
	NAVIGATION DECK					
9	WHEELHAUSE STB	1980	1680x680	300	WATERTIGHT ALUMINIUM W-T4-F2	YES
10.						

WEATHERTIGHT SHELTERS OPENINGS

(1) NET DRUMS COMPARTMENT

PS TONNAGE VALUES

2pcs { - 270x160 NRV — AFT
2pcs { - 370x270 NRV — FORE

STB TONNAGE VALUES

2pcs { - 240x140 NRV — AFT
2pcs { - 380x280 NRV — FORE

2

Vente

(2) FISH GUTTING COMPARTMENT

PS TONNAGE VALVES

1 pc { – 240 x 140 NRV FORE

STB TONNAGE VALVES

2 pcs { – 240 x 140 NRV AFT
– 370 x 270 NRV FORE

WATERTIGHT NET HANDLING HATCH DOORS

PS – 1340 x 1300

STB – 1340 x 1300

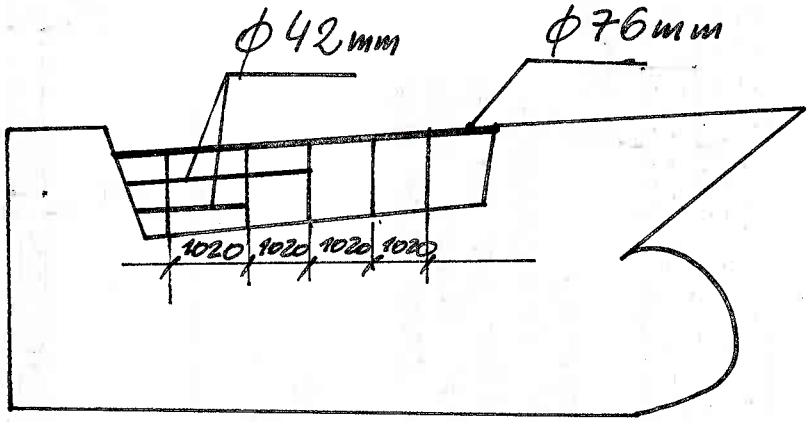
FREEING PORT ARRANGEMENTS

Length of Bulwark L	Height of Bulwark H	Size of Freeing Ports	Number on each side	Area each side	Rule area each side FREEING PORT
	SEE OVERLEAF	DRAWING			$A = \frac{(1+3.5H) \times L \times H}{100}$

State whether freeing ports are fitted with shutters, bars or rails, any means of closure and give particulars of such:

Particulars of guard rails, wires or chains:-

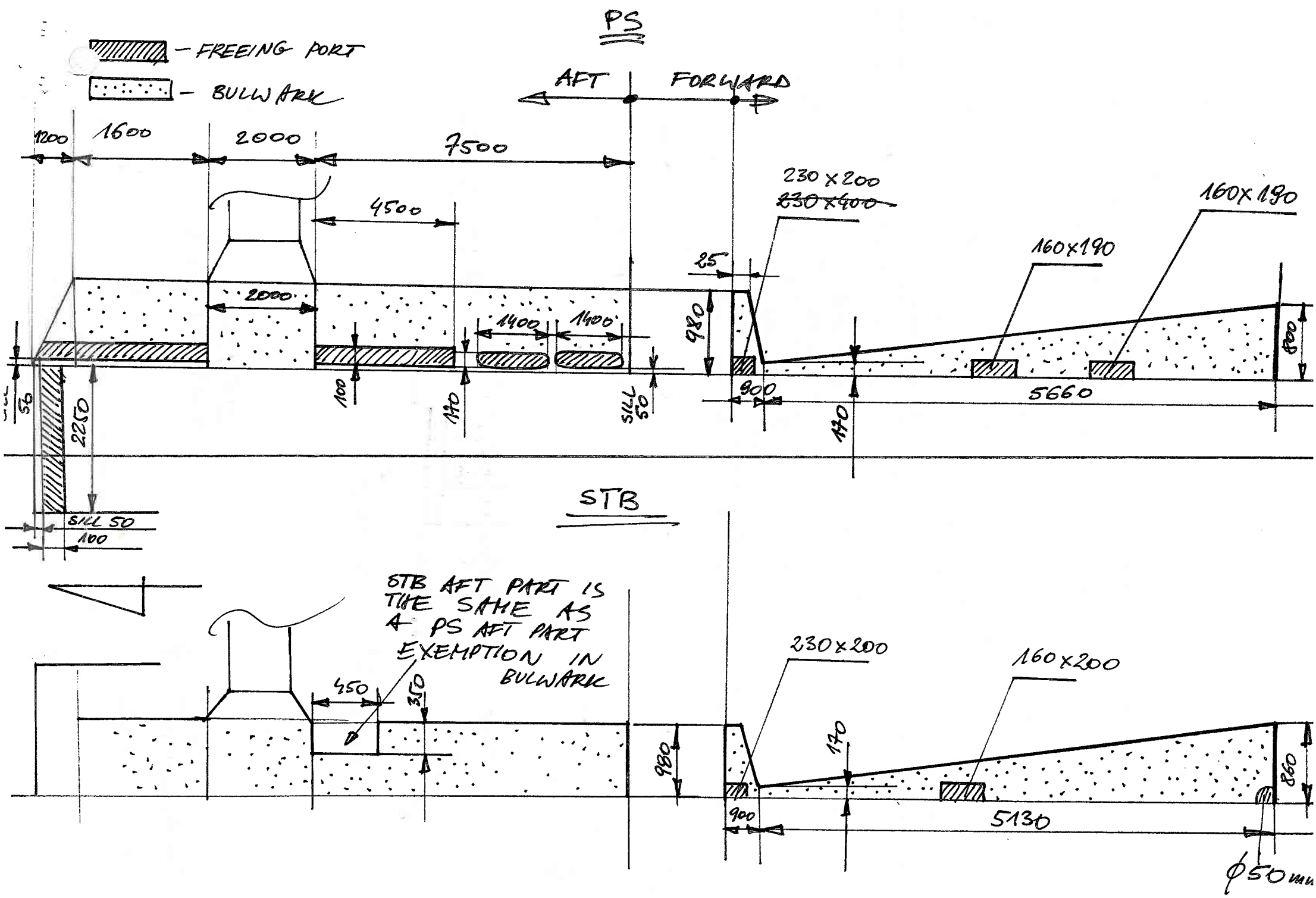
PS & STB



Factory deck freeing arrangements (including pumping, offal chutes etc):-

	L [mm]	H [mm]	SIZE OF F.P.	NUMBER ON EACH SIDE	AREA EACH SIDE	RULE AREA EACH SIDE
PS FORWARD	6560 mm 6,56 m	EVERAGE 0,48 m	230 x 200 160 x 190 160 x 190	3	0,106 m^2	0,084 m^2
STB FORWARD	6030 mm 6,03 m	0,515 m	230 x 200 160 x 200 ϕ 50	3	0,08 m^2	0,087 m^2

ABOVE FREEING PORT ARRANGEMENTS ARE CALCULATED FOR FORWARD PART OF THE VESSEL


PS
FREEING PORT
BULWARK
AFT
FORWARD
1200
1600
2000
7500
4500
2000
1400
1400
100
140
SILL 50
50
2250
SILL 50
100
230 x 200
230 x 400
160 x 190
160 x 190
25
980
900
140
5660
800
STB
STB AFT PART IS THE SAME AS A PS AFT PART
EXEMPTION IN BULWARK
450
350
980
230 x 200
160 x 200
170
900
5130
860
ϕ50 mm

SCUTTLES ON FREEBOARD DECK

ITEM.	Position	Type	Size	Frame Material	Blank/Deadlight Material
(1)	PS FR 15 MESSROOM	CLOSE/OPEN COLV-P1	ϕ400x24	BRONZE	BRONZE
(2)	PS FR 19 MESSROOM	CLOSE/OPEN COLV-P1	ϕ400x24	BRONZE	BRONZE
(3)	STB FR 17 CORRIDOR	CLOSE/OPEN COPV-Y1	ϕ400x24	BRONZE	BRONZE
(4)	STB FR 24 CHANGING ROOM	CLOSE/OPEN COPV-Y1	ϕ400x24	BRONZE	BRONZE
	SIDE SCUTTLES (1)	(2) (3) (4)		ARE EXTERNAL. (OUTER WATERTIGHT STRUCTURE)	
(5)	PS FROM CABIN TO FISH GUTTING COMPARTMENT	CLOSE/OPEN E3-IW-221-Y1	400x560 WINDOW	BRONZE	
(6)	STB FROM CABIN TO FISH GUTTING COMPARTMENT	CLOSE OPEN E3-IW-221-Y1	400x560 WINDOW	BRONZE	
(7)	STB WC TO NET DRUMS COMPARTMENT	CLOSE/OPEN COLV-P1	ϕ400x24	BRONZE	BRONZE
(8)	STB WC TO NET DRUMS COMPARTMENT	CLOSE/OPEN COLV-P1	ϕ400x24	BRONZE	BRONZE
(9)	STB GALLEY TO NET DRUMS COMPARTMENT	CLOSE/OPEN E3-IW-221-Y1	400x560 WINDOW	BRONZE	
(10)	PS FROM MESSROOM TO NET DRUMS COMPARTMENT	CLOSE/OPEN E3-IW-221-Y1	400x560 WINDOW	BRONZE	

SIDE SCUTTLES (5) (6) (7) (8) (9) (10) ARE INTERNAL.

SKYLIGHTS NOT FITTED.

Vente!

SIDE OPENINGS BELOW FREEBOARD DECK - (IF FITTED) N. A

Position	Size	Method of Closure
NOT	FITTED	

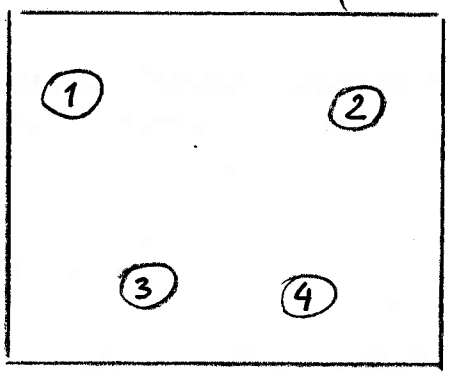
SIDE SCUTTLE ON UPPER DECK

PS	SKIPPER CABIN	CLOSE/OPEN E3-IW-221-Y1	400x560 WINDOW	BRONZE

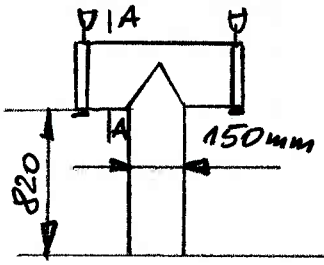
VENTILATORS IN EXPOSED POSITIONS

Sketch Reference Number	Position	Coamings			Type of Head	Closing Appliance
		Diameter	Height	Material		
TOP OF WHEELHOUSE ① ② ③ ④	AS BELOW	150	820	STEEL	HAND OPERATED OPEN/CLOSE	TWO LOCKS (CLEATS) EACH
NAVIGATION DECK ① ② ③ ④ ⑤	AS BELOW	150	820	STEEL	HAND OPERATED OPEN/CLOSE	TWO LOCKS EACH
NAVIGATION DECK ⑥ ⑦	AS BELOW	260	775	STEEL	HAND OPERATED	
UPPER DECK ⑥ ⑦	AS OVERLEAF	150	820	STEEL	HAND OPERATED OPEN/CLOSE	TWO LOCKS

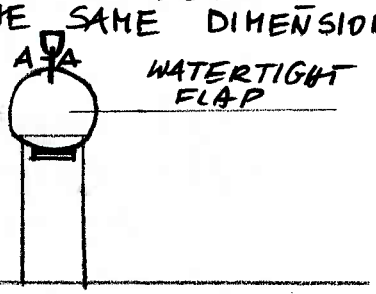
TOP OF WHEELHOUSE (MONKEY DECK)



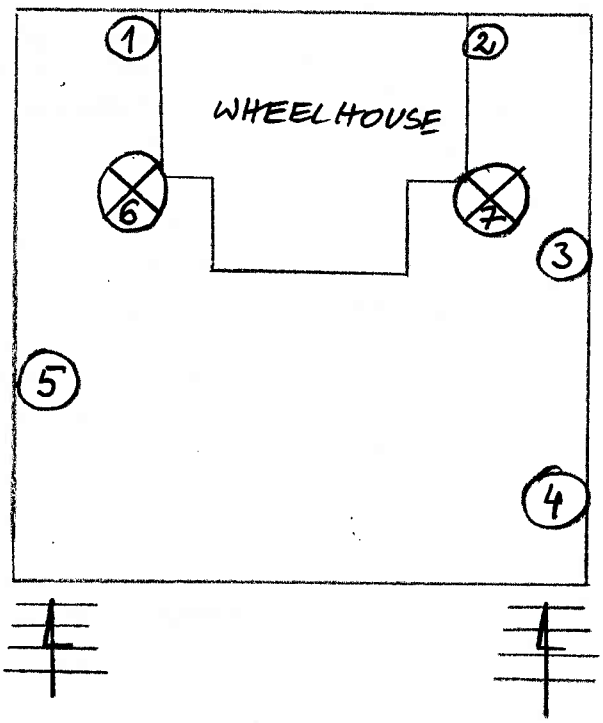
① ② ③ ④



NATURAL VENTILATION FROM WHEELHOUSE THE SAME DIMENSIONS



NAVIGATION DECK



① ② ③ ④ ⑤ NATURAL VENTILATION THE SAME DIM. AS ABOVE

FROM:

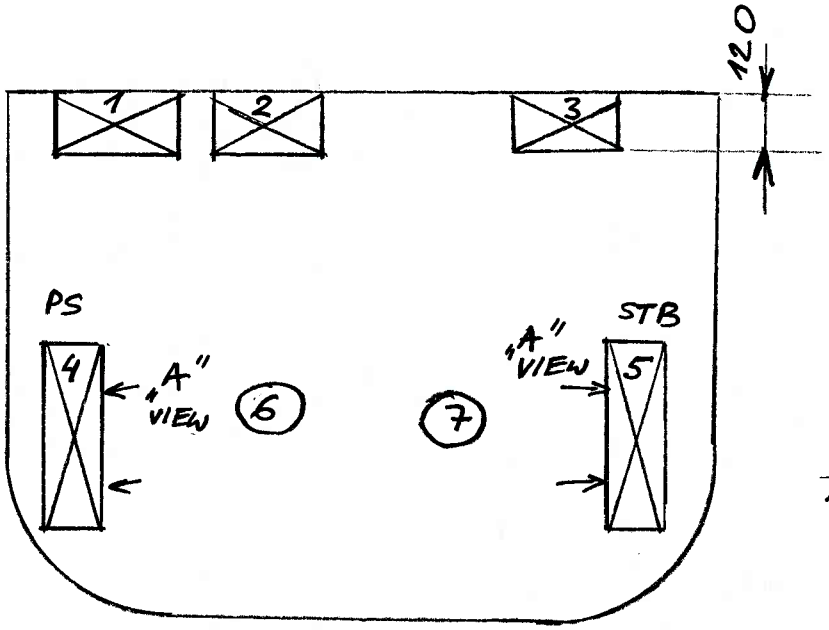
① WC PS
② CHANGING ROOM
③ STORE STB (FORE)
④ STORE STB (AFT)
⑤ CABIN PS
⑥ - EL-MOT SUPPLY VENT PS
⑦ - EL-MOT SUPPLY VENT STB

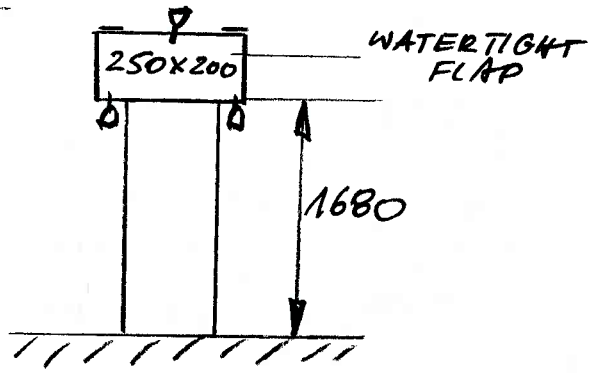
Vente!

UPPER DECK (AFT PART)

– NATURAL VENT. DUCTS SAME DIMENS. FROM:

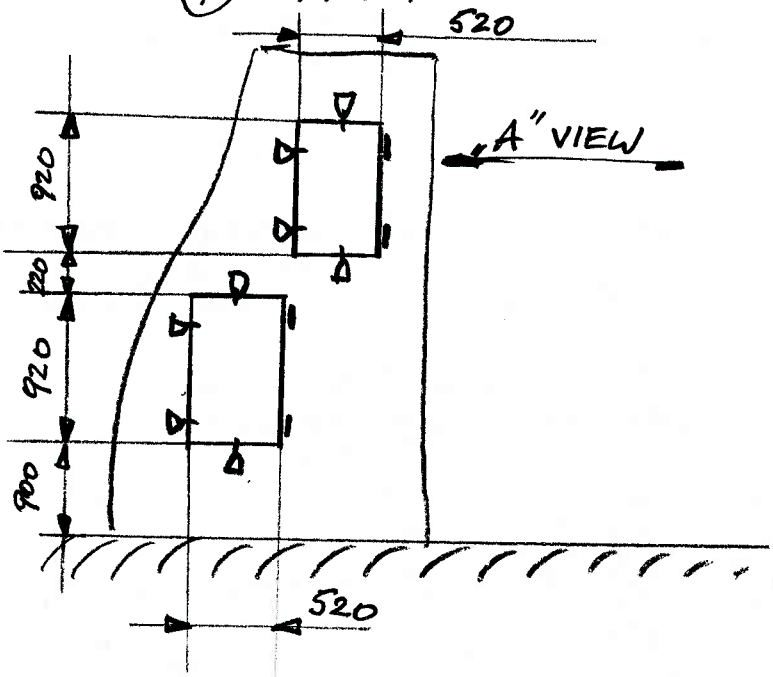
1 – 4 PERS. CABIN
2 – GALLEY
3 – BATHROOM

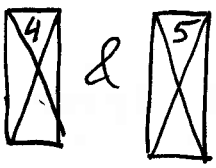




⑥ & ⑦ EL-MOT EXHAST VENTILATION SAME DIMENSIONS AS ON THE TOP OF THE WHEELHOUSE (SEE OVERLEAF)

⑥ FROM GALLEY
⑦ FROM WC





SAME DIMENSION VENTILATION DUCTS

– PS NATURAL VENTILATION FROM ENGINE ROOM

– STB EL-MOT SUPPLY VENTILATION TO ENGINE ROOM

LPG N.A.

Installations		Detector Name & Position
Position and Number of Bottles		
Number of appliances		

STEERING GEAR

WFA

Description of the main and the auxiliary steering gear
TENFJORD STEERING GEAR TYPE SR562L-PU30-H330 RUDDER MOTOR TYPE SR562 L POWER PUMP TYPE 2D20 HAND PUMP TYPE H330 EL-MOTOR TYPE ABB/100LA RUDDER INDICATORS IN WHEEL HOUSE : 4 pcs - CENTER MAIN PANEL - PS PANEL - STB SIDE PANEL - AFT PANEL

Air receiver Number	Capacity	Relief Valve Limiting Pressure
TWO	125 ltr. EACH	35 BARS

30 BARS WORKING PRESSURE

Bilge AlarmSystem: IN MACHINERY SPACE
NORIMOS 1000-S56-CAN ALARM AND MONITORING SYSTEM
24V DC

ELECTRICAL AND AUXILIARY SYSTEMS

AC Generators/Alternators STAMFORD

	Type	Rating	Voltage
(1) AC	UCM 274 N° C049568/01	F13	
	3x415 VOLT	50 Hz 1500 1/min	
	108 KW	INSUL. CLASS F	
(2) AC	UCM 274 N° C049568/02	F13	
	3x415 VOLT	50 Hz 1500 1/min	
	108 KW	INSUL. CLASS F	

Emergency Lighting

Position	Power Source
ENGINE ROOM	
1. FR 16 STB - 1pc - BATT.	
2. FR 6 STB - 1pc - BATT.	
3. FR 16 PS - 2 pcs - BATT.	
4. FR 9 PS - 1 pcs - BATT.	
5. EMER. EXIT E.R - BATT.	
FISH HOLD	
1. FR 30 STB - 1pc - BATT.	
NET DRUMS COMP.	
1. FR 7 PS - 1pc - BATT.	
ACCOMODATION	
1. MESS ROOM/GALLEY - 1pc BATT	
2. CORRIDOR STB - 1pc - BATT.	
3. UPPER DECK-CORR. - 1pc - BATT.	

Vente!

10 pcs - 200 Ah / 12 Volt DC Batteries

Position	Rating
(1) ENGINE ROOM - 2 pcs	
AUX. ENG BATT.	STARTING- 2x12V x 200 Ah
(2) EMERGENCY LIGHTING - 4	
FREEBOARD DECK AFT - PS	4 x 12V x 200Ah
(3) RADIO NAVIGATION DECK PS AFT	BATT. - 4 pcs 4x12V x 200Ah
TOTAL	
10 x 12 VOLTS x 200 Ah DC	

Number and Type of Anchors	ANCHOR	SHI 110547-1/110552-1
	SHANK	SHI 110552-1/110547-1
Length and Diameter of Chain Cables and/or Wire Ropes	ϕ 22 mm	6x 27,5m = 165 m

EMERGENCY LIGHTING

4. FREEBOARD DECK / CORRIDOR STB - 1pc - BATT.
5. —"— / CHANGING ROOM STB - 1pc - BATT.
6. FISH GUTTING COMP. / FREEBOARD DECK - 1pc - BATT.
7) WHEELHOUSE - / 1pc - BATT.

EXTERNAL

1) NAVIGATION DECK PS / LIFE RAFT STOWAGE - 1pc - BATT.
2) —"— —"— STB / —"— 1pc BATT.

8 JAN. 1996

GEAR FOR C.P. INSTALLATION

ULSTEIN PROPELLER
TYPE Nº : 520 AGSC Nº F 5810

AIR - COMPRESSORS - 2 pcs.

KETTING
TYPE : LT 730 KE
Nº : AML 306285 , AML 306284
WORKING PRESSURE - / 30 BARS

BILGE WATER SEPARATOR

2-STAGE VICTOR OILY-WATER SEP.
½ / 1 M3 / HOUR SERIAL Nº 9326
TYPE MMB 203

SCUPPERS, INLETS AND DISCHARGES

	Inlet or Discharge	System and Compartment	Diameter	Position of Valve	Type of Valve	Valve Material
1	DISCHARGE	BILGE / ENGINE ROOM	ϕ100mm	AFT / STB	NRV TYPE I-30	STEEL
2.	DISCHARGE	BILGE WATER SEPARAT. ENGINE ROOM	ϕ 25 mm	AFT / STB	NRV TYPE 330	BRONZE
3.	DISCHARGE	M.E. / COOLING WATER E.R.	ϕ80mm	STB / ER	NRV TYPE I-30	STEEL
4.	DISCHARGE	HYDRAULIC OIL S.W. COOLING / E.R.	ϕ40mm	STB / ER	NRV TYPE I-330	BRONZE
5.	DISCHARGE	AUX. ENG S.W. COOLING / E.R.	ϕ65 mm	PS / ER	NRV I-30	STEEL
6.	DISCHARGE	REF. PLANT S.W. COOLING / E.R.	ϕ20 mm	PS / ER	NRV TYPE 330	BRONZE
7.	INLET	SEA CHEST / ER.	ϕ150mm	PS	~~NRV~~ BUTTERFLY	BRONZE
8.	INLET	SEA CHEST / ER	ϕ 150mm	STB	~~NRV~~ BUTTERFLY	BRONZE
9.	INLET	EMERGENCY FIRE PUMP SUCTION NET DRUM COMP.	ϕ 32 mm	STB / AFT	NRV TYPE 330	BRONZE
10	SCUPPER	WC UPPER DECK	ϕ100 mm	FR. N° 29 / PS	NRV TYPE 11606	STEEL
11.	SCUPPER	BATHROOMS UPPER DECK	ϕ 50mm	FR. N°27 / PS	NRV TYPE 11606	STEEL
12	SCUPPER	GALLEY / GREY WATER	ϕ50mm	FR N°17 / PS	NRV TYPE 11606	STEEL
13	SCUPPER	BATHROOM MAIN DECK	ϕ50 mm	FR N°15 / STB	NRV TYPE 11606	STEEL
14.	SCUPPER	WC MAIN DECK	ϕ100 mm	FR N°11 / STB	NRV TYPE 11606	STEEL

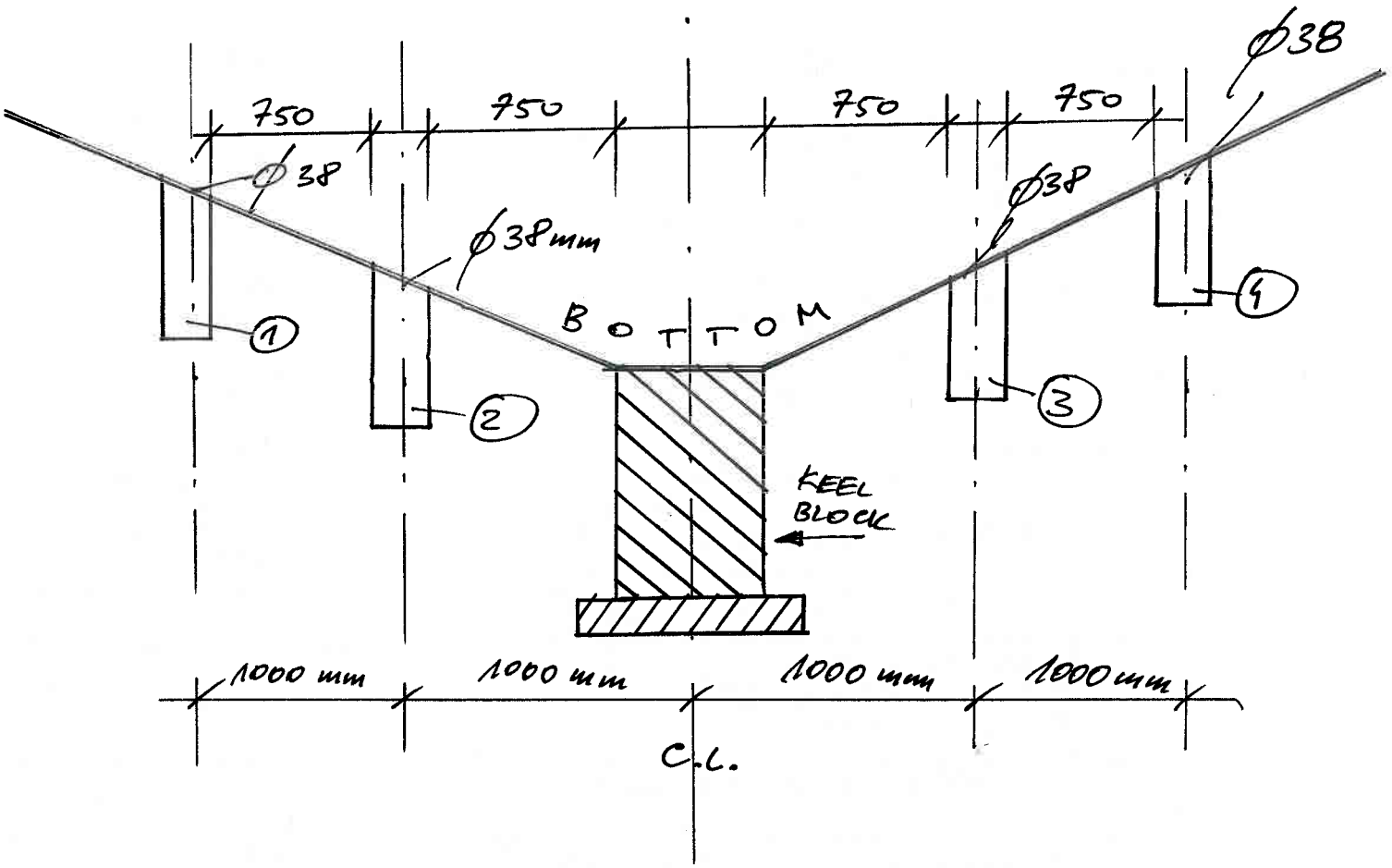
LOG & ECH SOUNDER DEVICES
SEE OVERLEAF

Vente !

INLET SEACHEST / E ~~BILGE~~ COOLING 65 mm STBD NRV. BR.

DISCH Rud GBox Cooling 30 mm ST. NRV. BR

FR 30 1/2



(1) SCANMAR — ECHOSOUNDER
(2) HOMMTEX — LOG
(3) ATLAS — ECHOSOUNDER
(4) SCANMAR — ECHOSOUNDER

ALL 4 pcs of PIPES ARE FITTED WITH ϕ 38 mm STAINLESS STEEL STUFFING BOX.

Closing Arrangements fitted to openings in Machinery Casing Tops:

N. A

Flush Scuttles

Number | Size | Material of Cover | N. A | Retaining Device

Companion Ways (Position on Vessel)

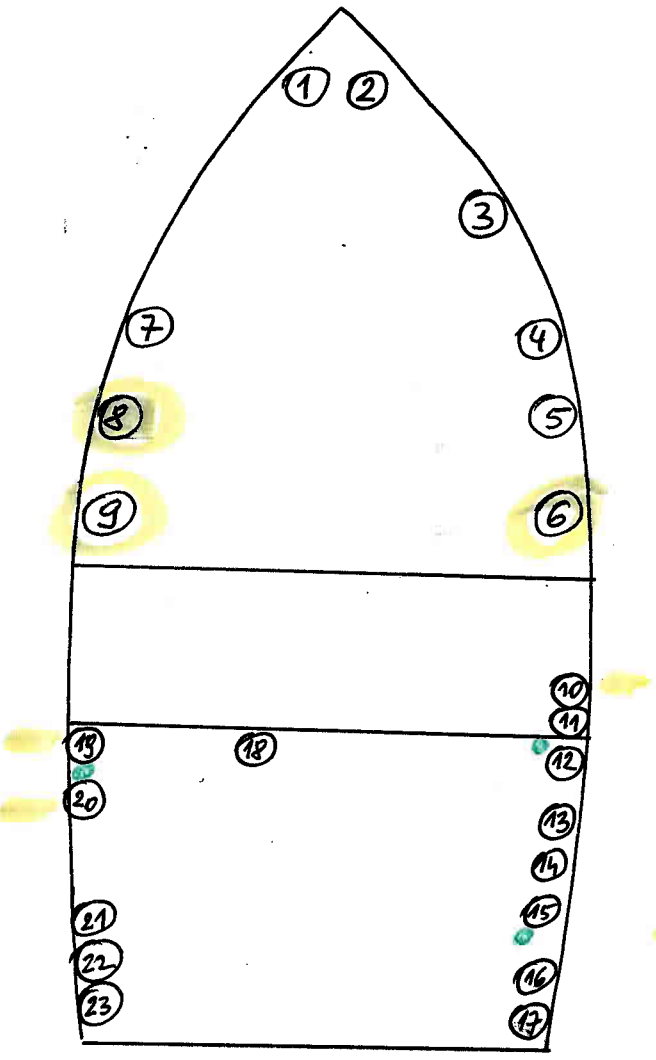
Sill Height

Closing Arrangement

N. A

TANK AIR-PIPES

Sketch Reference Number	Position	Diameter	Material	Coaming Height to open end	Closing Appliance
	ALL AIR-PIPES AND CAPS ARE MADE FROM STEEL CLOSING APPLIANCES SEE ATTACHED DRAWING				



ALL AIR PIPES ARE SITUATED ON UPPER-DECK

1 – FOREPEAK – ϕ 6Γ
2 FORWARD STORE ϕ6Γ
3 – FISH GUTTING COMP. – ϕ6Γ
4 – F.W – ϕ6Γ
5 – COFFERDAM – ϕ6Γ
6 – F.O STB → ϕ80 mm (STORAGE)
7 F.W – ϕ6Γ
8 – F.O PS → ϕ80 mm (STORAGE)
9 – F.O PS → ϕ80 mm (STORAGE)
10 – F.O STB → ϕ80 mm (STORAGE)
11 – F.O DRAIN TANK – ϕ80
12 – F.O DAY TANK – ϕ80
13 – F.O SETTLING TANK – ϕ80
14 L.O. STORAGE – ϕ6Γ
15 L.O ~~SUMP~~ SUMP (ME) – ϕ6Γ
16 F.W – ϕ6Γ
17 L.O – ϕ6Γ
18 STEERING GEAR – ϕ6Γ
19 F.O PS → ϕ80 mm (STORAGE)
20 F.O PS → ϕ80 mm (STORAGE)
21 M.E VENT PIPE (CRANKCASE) – ϕ6Γ
22 F.W – ϕ6Γ
23 VENT FROM NET DRUMS COMP. – ϕ6Γ

F.O FILLING PIPES ϕ50 mm

ALL AIR-PIPES ARE 450 mm ABOVE UPPER DECK

NORMA BRANŻOWA

ŚRODKI TRANSPORTU WODNEGO I URZĄDZENIA PŁYWAJĄCE

DECK DEARETATORS WITH

Odpowietrzniki pokładowe Okrętowe z zamknięciem kulowym

BALL CLOSING DEVICE

BN-91 3732-26

Zamiast BN-79/3732-26

Grupa katalogowa 0545

(Pan. E. Swlrók)

1. Przedmiot normy. Przedmiotem normy są odpowietrzniki pokładowe stosowane na obiektach pływających jako zakończenie rurociągu odpowietrzającego zbiorniki suche, wody, paliwa i oleju o temperaturze zapłonu powyżej 60°C.

2. Typy. W zależności od liczby oczek w sicie i od zastosowania rozróżnia się dwa typy odpowietrzników pokładowych:

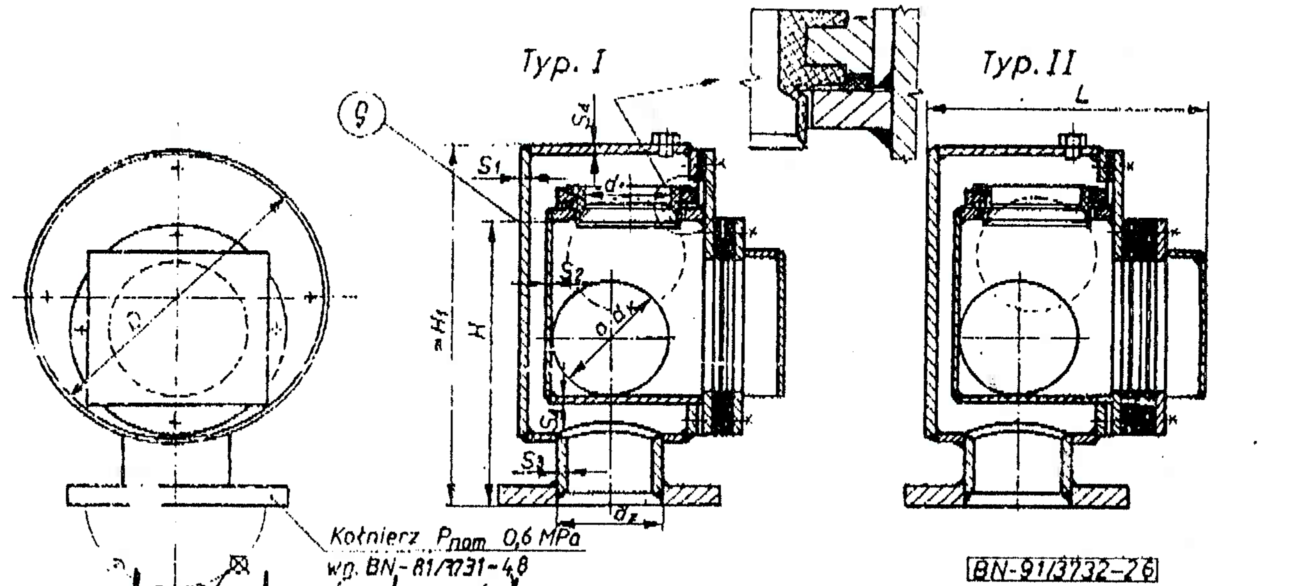
— I — z jednym sitem 5,0 × 1,00 (pole powierzchni prześwitu 69%) — do zbiorników suchych i wody,

— II — z dwoma sitami 0,5 × 0,200 (pole powierzchni prześwitu 51%) — do zbiorników paliwa i oleju.

3. Przykład oznaczenia odpowietrznika pokładowego o średnicy *DN* 50, wysokości zamknięcia *H* = 200 mm, typu I:

ODPOWIETRZNIK 50/200-I BN-91/3732-26

4. Główne wymiary w mm — wg rysunku i tablicy. Szczegóły konstrukcyjne na rysunku podano przykładowo.



DN	50	65	80	100	125	150	200	250	300
d_1	85	85	115	130	150	185	240	300	340
d_2	65	65	80	100	125	150	206	250	300
H	200	200	260	300	340	425	510	—	—
	660								670
H_1	250	250	320	375	415	515	660	—	—
	710	710	720	735	735	750	810	820	820
S_1	7	7	7	8	8	10	10	10	10
S_2	4	4	5	5	5	5	5	7	7
$d_2 \times S_3$	60,3 × 6,3	76,1 × 6,3	88,9 × 7,1	108 × 7,1	133 × 8	159 × 8,8	219,1 × 8,8	273 × 8,8	323,9 × 8,8
$D \times S_4$	219,1 × 6,3	219,1 × 6,3	273 × 7,1	323,9 × 8	355,6 × 8	457 × 10	610 × 8,8	711 × 8,8	762 × 8,8
L	214	214	257	292	338	379	475	581	752

Zgłoszona przez Centrum Techniki Okrętowej w Gdańsku
Ustanowiona przez Dyrektora Centrum Techniki Okrętowej dnia 15 lutego 1991 r.
jako norma obowiązująca od dnia 1 lipca 1991 r.
(Dz. Norm. i Miar nr 3/1991, poz. 8)

WYDAWNICTWA NORMALIZACYJNE „ALFA" 1991

Druk Wyd. Norm. W-wa. Ark. wyd. 0,30 Nakł. 460 + 27 Zam. 449/91/2

ONLY USED.

Department of Transport
Register of Fishing Vessels
Merchant Shipping Act 1988

DTp30031/
SUR 59B (Rev 10/88)

Certificate of Measurement

Notes

- This form must be completed by an authorised measurer who has read the Instructions to Measurers (Circ 1664).
- To be an authorised measurer you must be an Inspector of Marks, under the Merchant Shipping (Registration of Fishing Vessels) Regulations 1988.
- The length of vessels close to 24 metres should be confirmed by the local Fishing Vessel Survey Office of the Department of Transport **before** you take the measurement.
- On completion you should send or hand this form in to:

  The Registrar General of Shipping and Seamen, PO Box 165, CARDIFF, CF4 4UX

  or to a local office. The only exception is if you seal the certificate in an envelope, sign across the seal and hand it to the owner. It can then be sent or handed in as above, but it must be intact.

Vessel Details

Name of vessel	HARVEST HOPE		
RSS number	B14296	Port letters and numbers	PD 120
Construction material of hull	STEEL		

Measurement Details

Registered length	24,33	Breadth	8,78	Depth	7,38
Overall length	28,23	Gross tonnage		Net tonnage	

Details of Propelling Engines

Number of engines	ONE	Engine(s) make and model(s)	STORK-WÄRTSILA 6FHD 240G
Total engine power	Kilowatts/Horsepower		1105 KW / 1502 BHP

Certification

I THE UNDERSIGNED SURVEYOR
AUTHORISED BY M.S.A.
HAVING SURVEYED ABOVE-NAMED VESSEL
HEREBY CERTIFIES THAT:
-ABOVE PARTICULARS ARE CORRECT

BUREAU-VERITAS
SURVEYORS AT
PARIS
1828
SZCZECIN
REGISTRE INTERNATIONAL

24. JAN. 1996

FIRE EXTINQUISHERS PLACED ON BOARD M/V ~~HARVEST~~ HOPE "

FOAM → (F)

MODEL Nº TG-61 D
9 Ltr FIREMASTER
LICENCE Nº 7284

POWDER → (P)

MODEL Nº TG 73BD
9 Ltr FIREMASTER
LICENCE Nº 7284

LOCATION :

ENGINE ROOM : THREE PCS
ONE POWDER (MAIN SWITCH BOARD)
ONE POWDER (M.ENGINE - STB)
ONE FOAM (MAIN ENGINE STB - AFT)

MESSROOM / GALLEY — ONE FOAM
WHEELHOUSE — ONE POWDER
FISH GUTTING DEPT — ONE FOAM

/ 26 JAN. 1996

Working Instructions from final approved stability booklet for *Harvest Hope*, dated 28/05/02

WORKING INSTRUCTIONS

1. MAXIMUM LOADING

The maximum loading for this vessel corresponds to the condition shown on pages 12 & 13. In this condition the vessel has a total deadweight loading of 158 tonnes.

2. MAXIMUM DRAUGHT FORWARD

In order to comply with Merchant Shipping Notice No.M975 "Freeboards of Fishing Vessels", a freeboard (HD) of 1.538 metres is required, measured 0.350 metres aft of the Forward Perpendicular, from the waterline to the Upper deck-at-side. This means the draught (draft) at that point should not exceed 6.290 metres.

3. MAXIMUM DRAUGHT AFT

In order to comply with Merchant Shipping Notice No.M975 "Freeboards of Fishing Vessels", a freeboard (HDA) of 1.120 metres is required, measured 2.064 metres aft of the Aft Perpendicular, from the waterline to the Main deck-at-side.
A reduction of 27% in this freeboard has been granted to this vessel, based on additional measures taken to protect the watertight integrity from possible flooding of the net-drum space at the aft end of the Main deck. The additional measures included added non-return freeing port area, w.t. door alarms and secondary bilge pumping arrangements. These improvements were made in June 2000.
This means that the after freeboard should not be less than 0.818 metres, at a point 2.064 metres aft of the Aft Perpendicular, nor the corresponding draught (draft) exceed 5.907 metres.

4. LOOSE WATER

The accumulation of 'free water' in any space will cause loss of stability due to it's transverse movement and must be avoided. In particular the aft net drum space on the main deck and the fish processing deck forward must be cleared of any water immediately.

5. WATERTIGHT INTEGRITY

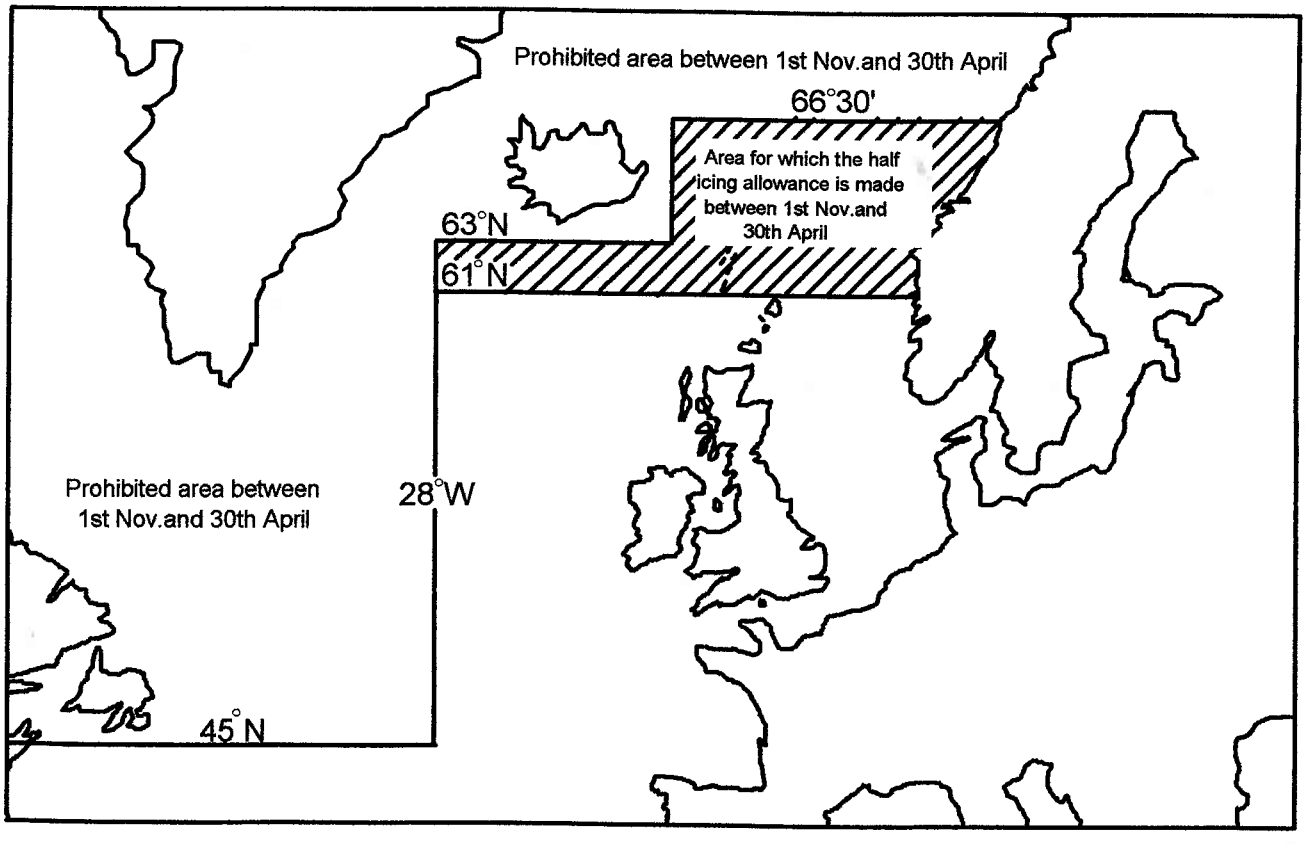
The levels of stability shown in PART II are entirely dependent upon water being excluded from the hull below the Upper deck except for the Net Drum space aft of frame 13.
Open doorways, hatchways etc. may breach this integrity, leaving the vessel vulnerable when suddenly heeled or when taking a sea on-board.
It is essential that all watertight accesses to and from the net drum space, are kept closed and clipped when the stern doors are open. In general all watertight doors, at all times at sea, when not needed for immediate access, must be kept closed and clipped.

6. OIL FUEL TANKS

The oil fuel storage tanks are situated in the double bottom under the fish room, and in the engine room wings. As a general rule the engine room wing tanks, Nos. 8 to 11, should be used first and the centre double bottom tank, No.7, last.

7. ICING-UP

In winter there is a risk of 'icing-up' in more northern waters. The effect of 'half-icing' is shown in Loading Conditions Nos. 3,4&5, but action to avoid or reduce icing must be taken as soon as it expected or experienced.
Between the 1st November and the 30th of April, inclusive, the vessel must not operate within the prohibited area shown below.



Annex K

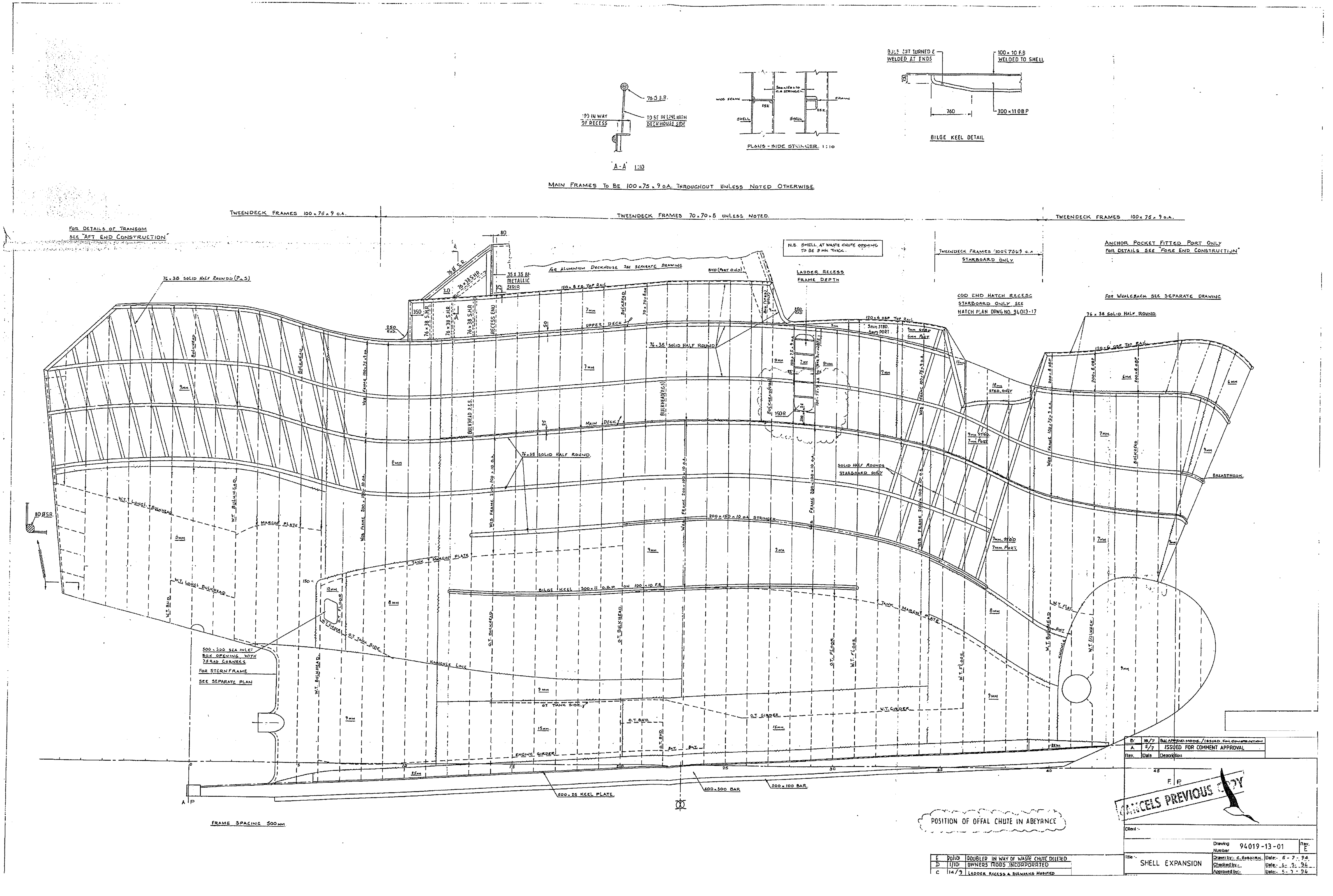
Trouble Shooting section from Instruction Manual for
RAPP PTS 3000 automatic trawl winch system

TROUBLE SHOOTING DIAGRAM
RAPP TRAWL WINCH SYSTEM

PROBLEM	CAUSE	SOLUTION
No power to PTS-3000	Automatic circuit breaker is off either on the main switch board or in the Rapp electric cabinet.	Reset automatic circiutbreaker.
Remote controls do not operate winches	Pilot pump is not running.	Check drive unit for pilot pump.
	Pilot pressure too low.	Check pressure, should be approx. 45 bar.
	No 24VDC power supply to remote control amplifiers	Check fuses for 24VDC power supply.
Oil level alarm.	Too low level in the reservoir.	Check for hydraulic leaks. Fill up oil tank.
Winches do not operate	Main pumps do not running	Start main pumps.
	The motors do not give suficient torque due to low differential pressure across the motors, compared to the load.	Check the relief valve in engine room or on winch.
	The relief valves in the engine room are stuck in unloaded position.	Dismount relief valves and remove impurities.
	Remote controls not working.	See above.

PROBLEM	CAUSE	SOLUTION
Excessive system pressure varations when the winches are in pay-out mode.	The counterbalance setting has been changed.	Readjust counterbalance valve.
Winch operates only at one speed.	Two speed valve is stuck.	Check the valve. Dismount valve and remove impurities.
(Only for winch with two-speed valve).	No pilot pressure.	Check pressure and pilot pump.
The brake does not work.	The brake valve does not work.	Check the valve. Dismount valve and remove impurities.
The brake does not release suffiently.	Pilot pressure is too low.	Check pressure. Should be approx. 45 bar.
The brake will not hold drums in standstill.	The load is too heavy.	Check load.
	Brake adjustment has changed.	Readjust brake.
Irregular "bangs" in pumps and pipes.	Too much air in the oil.	Check level in reservoir. Oil level should be above return-oil inlet.

Shell Expansion drawing for *Harvest Hope*



A-A 1:10
PLAN - SIDE STRINGER 1:10
BILGE KEEL DETAIL
BULB CUT TURNED & WELDED AT ENDS
100 x 10 F.B WELDED TO SHELL
300 x 11 OBP
MAIN FRAMES TO BE 100 x 75 x 9 O.A. THROUGHOUT UNLESS NOTED OTHERWISE
TWEENDECK FRAMES 100 x 75 x 9 O.A.
TWEENDECK FRAMES 70 x 70 x 8 UNLESS NOTED.
TWEENDECK FRAMES 100 x 75 x 9 O.A.
FOR DETAILS OF TRANSOM SEE "AFT END CONSTRUCTION"
N.B. SHELL AT WASTE CHUTE OPENING TO BE 9 MM THICK.
LADDER RECESS FRAME DEPTH
TWEENDECK FRAMES 100 x 75 x 9 O.A. STARBOARD ONLY
ANCHOR POCKET FITTED PORT ONLY FOR DETAILS SEE "FORE END CONSTRUCTION"
COD END HATCH RECESS STARBOARD ONLY SEE HATCH PLAN DRWG NO. 94013-17
FOR WHALEBACK SEE SEPARATE DRAWING
FOR ALUMINIUM DECKHOUSE SEE SEPARATE DRAWING
76 x 38 SOLID HALF ROUNDS (P & S)
76 x 38 SOLID HALF ROUND
UPPER DECK
MAIN DECK
200 x 150 x 10 O.A. STRINGER
BILGE KEEL 300 x 11 O.B.P. ON 100 x 10 F.B.
TANK MARGIN PLATE
KNUCKLE LINE
BREASTHOOK
500 x 500 SEA INLET BOX OPENING WITH 75 RAD CORNERS
FOR STERNFRAME SEE SEPARATE PLAN
ENGINE GIRDER
500 x 35 KEEL PLATE
400 x 300 BAR
300 x 100 BAR
FRAME SPACING 500MM
POSITION OF OFFAL CHUTE IN ABEYANCE
CANCELS PREVIOUS COPY
Drawing Number 94019-13-01
Rev. E
Title: SHELL EXPANSION
Drawn by: C. BOSKIRK Date: 5-7-94
Checked by: Date: 5-7-94
Approved by: Date: 5-7-94
B 18/7 BW APPROVD. MODS./ISSUED FOR CONSTRUCTION
A 5/7 ISSUED FOR COMMENT APPROVAL
Rev. Date Description
E 20/10 DOUBLER IN WAY OF WASTE CHUTE DELETED
D 1/10 OWNERS MODS INCORPORATED
C 14/9 LADDER RECESS & BULWARKS MODIFIED

Ultrasonic Test report for *Harvest Hope*, dated 12/07/00

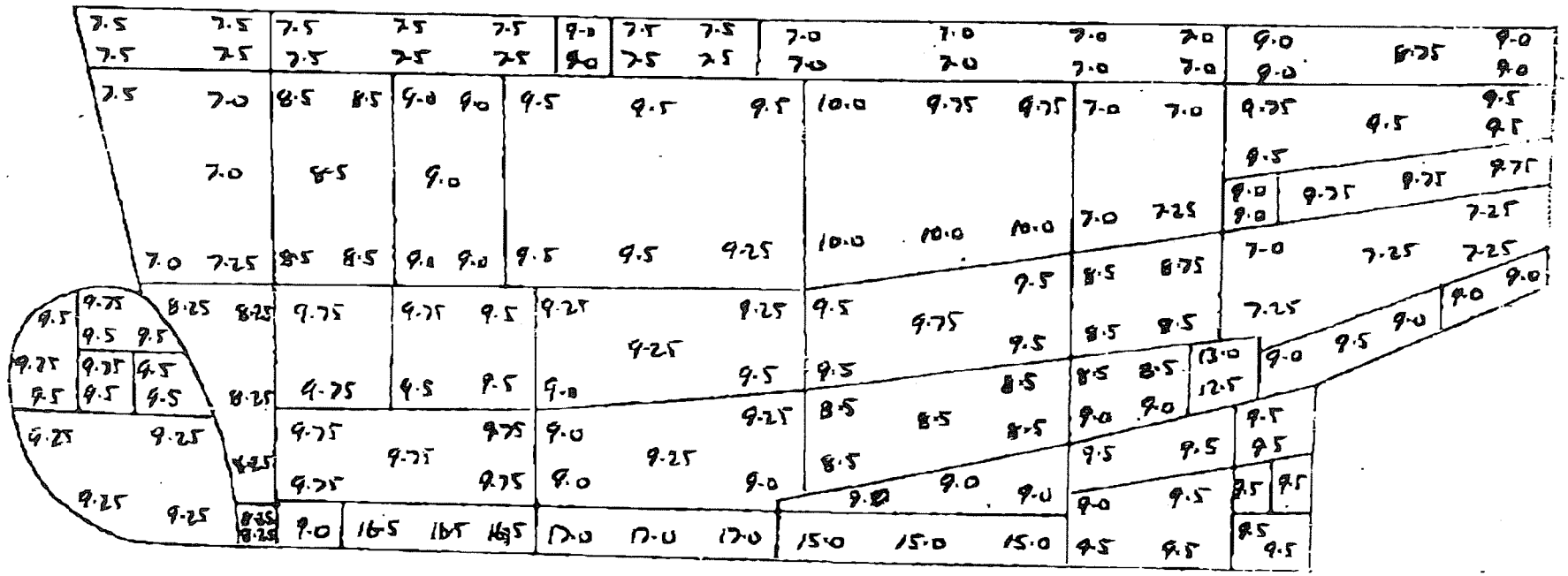
45

HULL SURVEY ON HARVEST HOPE PD 120

CLIENT:
T.I.I.S. JOB Nº: 45424
INSPECTOR:
LOCATION: FRASERBURGH DRY DOCK
DATE: 12-7-00

PORT HULL PLATES

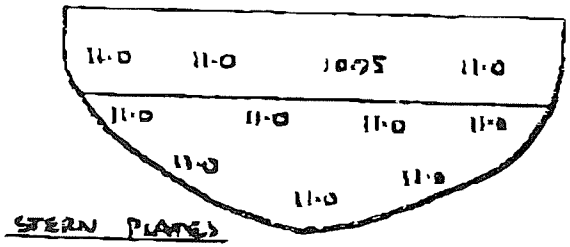
ALL DIMENSIONS IN MM OF STEEL



Torch Integrated Inspection Services

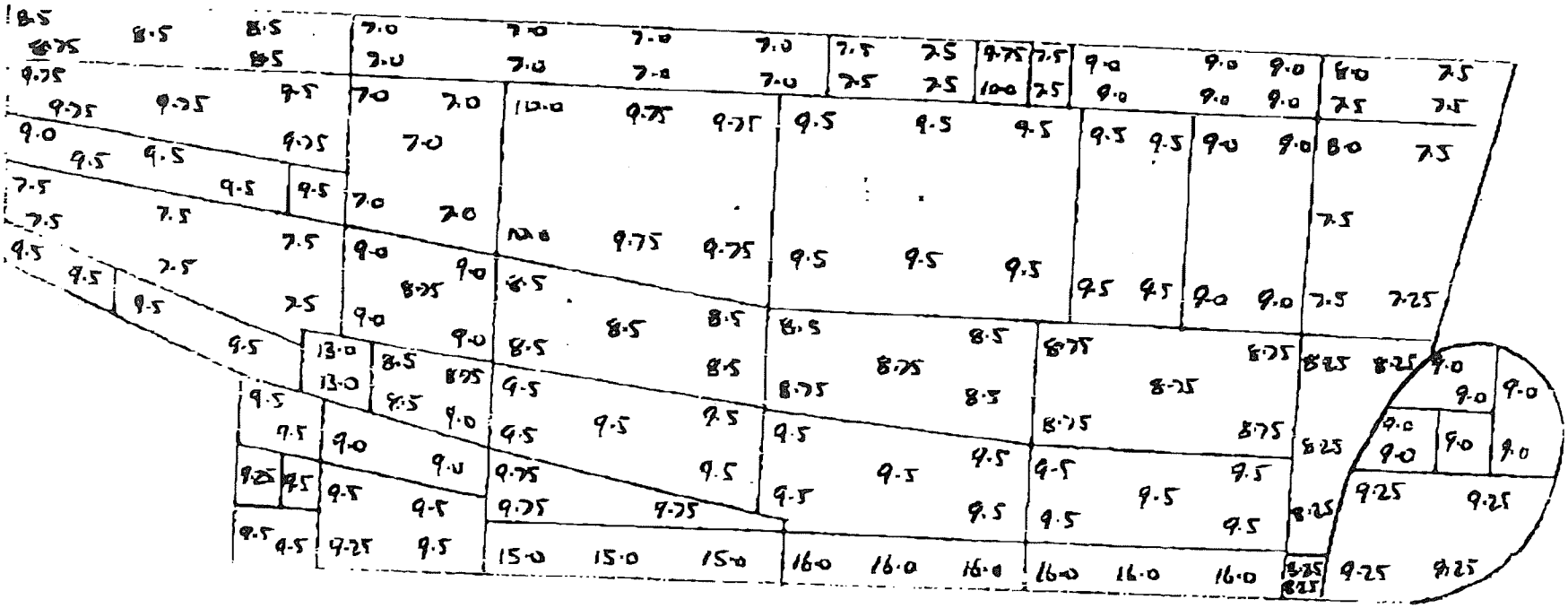
HARVEST HOPE PD 120

12-7-00



STERN PLATES

STARBOARD HULL PLATES



Ultrasonic Test report for *Harvest Hope*, dated 23/03/04

MB Inspection

North Esplanade East

Ultrasonic Inspection Report

REPORT DETAILS

Report No	Customer	Customer PO
U835JA		TBA

Contract No	Drg No	Spool No	C.Job No
53711			TBA

Location: PETERHEAD

Project	Line No
HARVEST HOPE PD120	

Description	Test Date
HULL SURVEY	11/03/2004

Procedure No	Technique No	Material
MBI/UT/02	MBI/UT/09	Carbon Steel

Acceptance Criteria	Technique Standard	Test Restrictions
ASME VIII DIV 1 APP12	API RP2X	None

Stress Relief	Diagnostic Area	Surface Condition
N/A	100%	As Rolled

Equipment

Couplant	Equip. Manufacturer	Model	Serial No.
Polycell	Krautkramer	USN 52	620172

☑ Visual	☑ Time Base Linearity	☑ Amplifier Linearity	Calibration Block No.	Timebase Range
			2560	0 - 100

Reference Block No.	Record Level	Reject Level	Sizing Technique(s)
V1	80%	80%	6dB drop and Max. Amp

Ser No	Type	Angle°	Crystal Size(mm)	Freq (MHz)	Basic Sens (db)	Xfer Correct (db)	Scan Sens (db)
21112	GB	T0	10mm	5	2nd BWE - FSH		

Probe Checks : ☑ Index ☑ Angle ☑ Squint ☑ Indicates Equip. Checks Done

ULTRASONIC INSPECTION RESULTS

Component/Weld No.	Defect Type	Thickness	Result	Comments
AIR RECEIVERS				10MM ON DOME END,8MM ON BODY
COLLISION BULKHEAD		9MM		
HULL RESULTS				SEE ATTACHED
TRANSOME		11MM		

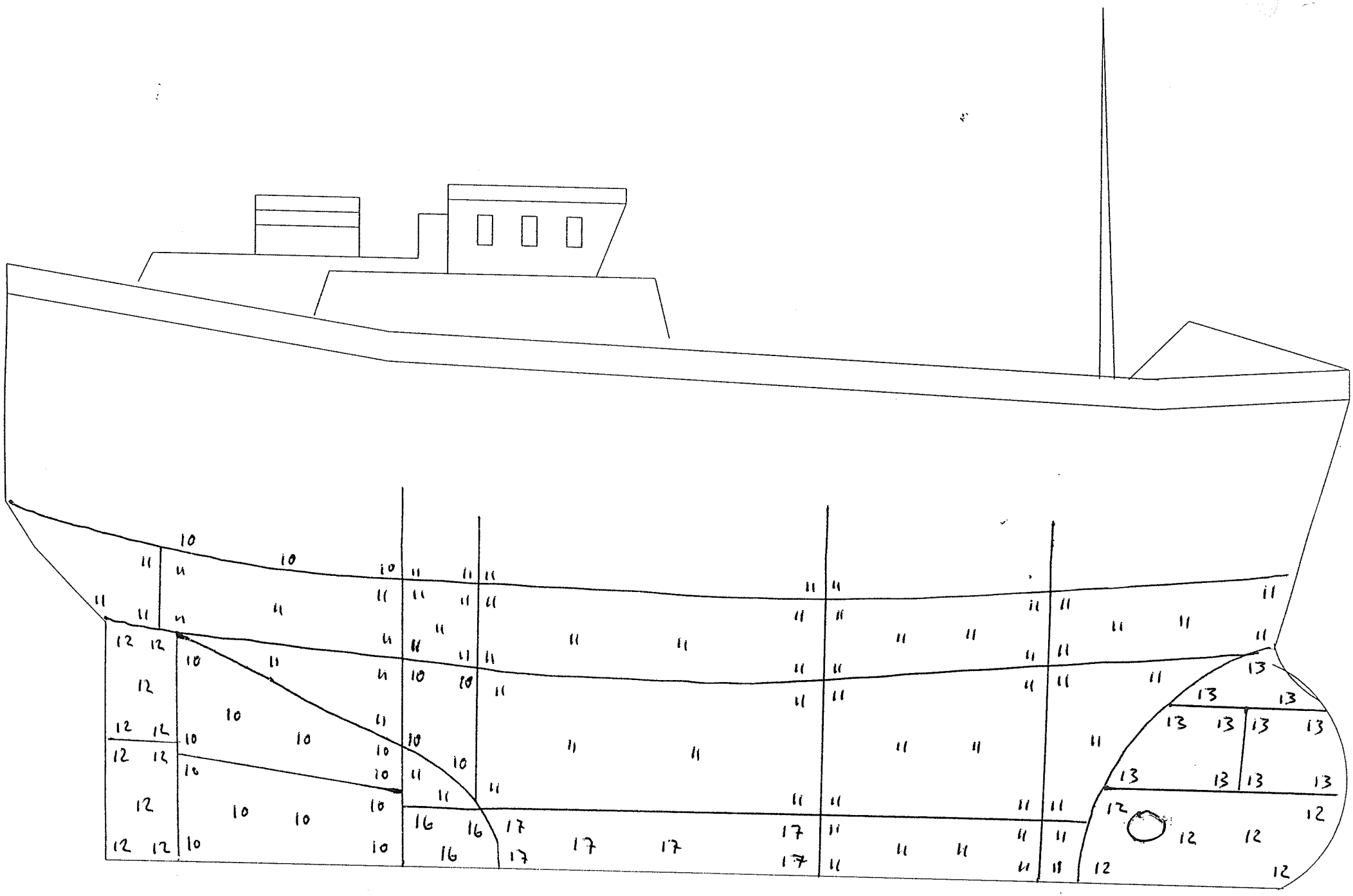
Technician	Qualifications	Date	
	PCN II	23/03/2004	

Technician Signature	Client Signature	Third Party

Results stated above relate exclusively to the item(s) identified above

T/NDT/03 REV 8

STARBOARD (III) HARVEST HOPE PD120
11-3-4.



PORT (III)

HARVEST HOPE PD120
11-3-4