

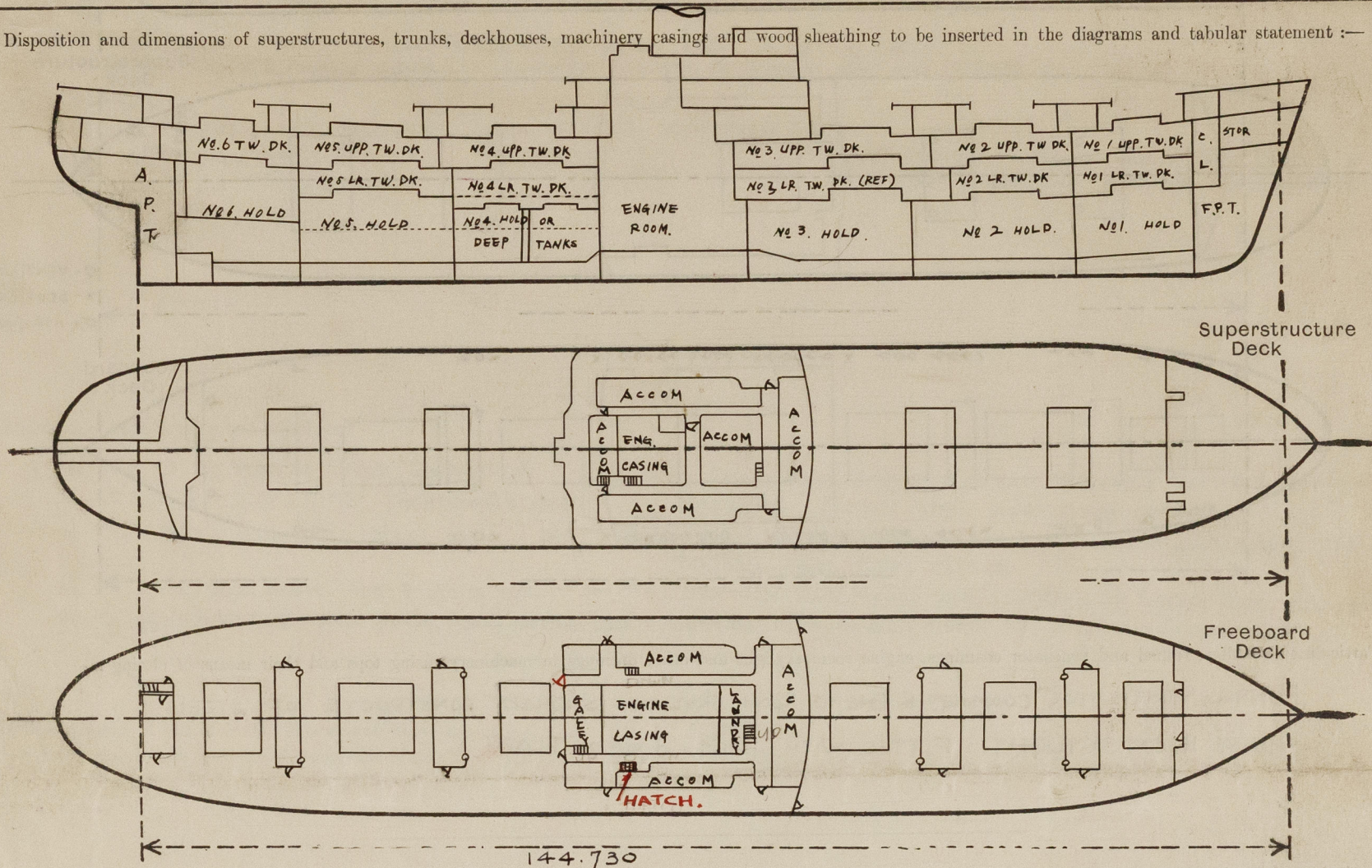
Mitsubishi Nippon Kogyo Industries 826 17 SEP 1960 FB
RECD. FBD. DEPT.
LLOYD'S REGISTER OF SHIPPING
SURVEYS FOR FREEBOARD
(CONDITIONS OF ASSIGNMENT)

Index No. _____
(For London Office only.)

6 SEP 1960

Ship's Name "SUMIDA MARU" Port of Survey YOKOHAMA, JAPAN.
Official Number 84347 Surveyor's Signature K. Jakano
Nationality and Port of Registry JAPANESE; TOKYO. Date of Survey WHILST BUILDING.

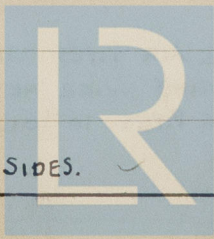
Disposition and dimensions of superstructures, trunks, deckhouses, machinery casings and wood sheathing to be inserted in the diagrams and tabular statement:—



Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height, Beam to Beam
Peep Bulkhead								
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead	7.5 ✓	7.5 ✓	75 × 75 × 6 1.0.A.	750	SNIPED T & B.	1 @ 750 × 1500 (P.S.) 1 @ 600 × 1500 (S.S.)	380	2,300
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses and Pump Room Entrances	FWD 9.5 ✓ SIDE 8.5 ✓ AFT 7.5 ✓	9.5 ✓ 8.5 ✓ 7.5 ✓	230 × 11 B.P. 125 × 75 × 7 1.0.A. 100 × 75 × 7 1.0.A.	750 800 750	LUG ATTACH T & B LUG ATTACH T & B SNIPED T & B	2 @ 750 × 1600 (P.S.) 1 @ 1200 × 1600 (P.S.) 2 @ 750 × 1600 (P.S.)	380 380	2,450

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Peep Bulkhead	
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Forecastle Bulkhead	TWO HINGED STEEL W. T. DOORS, OPERABLE FROM BOTH SIDES. ✓ (CLASS I.)
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	
Exposed Machinery Casings on Superstructure Decks	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses and Pump Room Entrances	SIX HINGED STEEL W. T. DOORS, OPERABLE FROM BOTH SIDES. ✓ (CLASS I.)



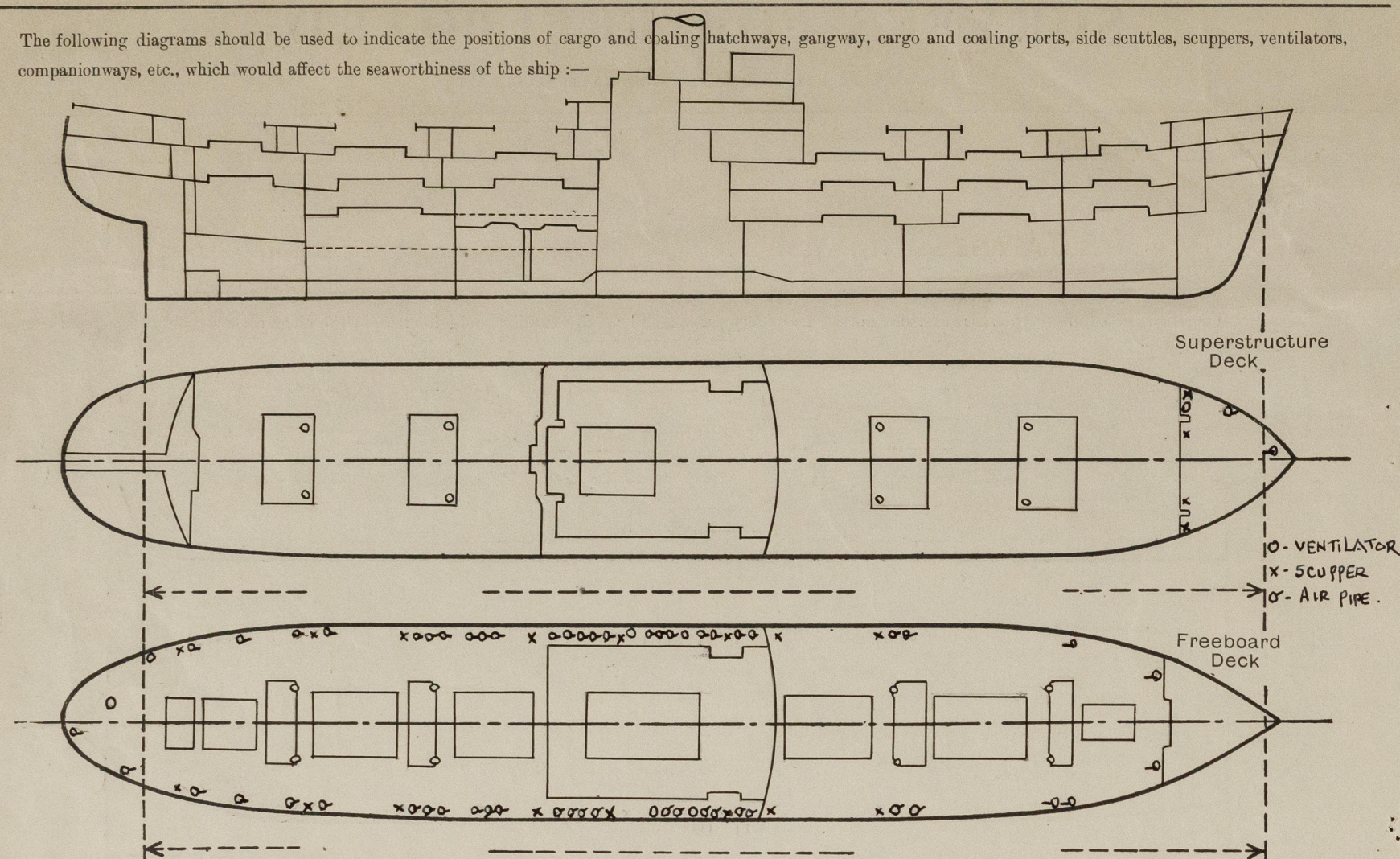
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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, side scuttles, scuppers, ventilators, companionways, etc., which would affect the seaworthiness of the ship :-



Particulars of fiddle, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing :-

FUNNEL, VENTILATOR COAMINGS & ENGINE ROOM SKYLIGHT STRONGLY CONSTRUCTED OF STEEL.
ENGINE ROOM SKYLIGHT FITTED WITH STEEL HINGED FLAPS.

Particulars of Flush Bunker Scuttles :-

- NONE -

Particulars of Companionways :-

IN UPP. DK. (P.S.) WITHIN MIDSHIP DECK HOUSE LEADING TO PROVISION STORE IN TWEEN DECK, DECK OPENING 1600 x 1100 PROTECTED BY STEEL CASING WITH STEEL DOOR OPERABLE FROM BOTH SIDES WITH SILL 380.
~~IN UPP. DK. (P.S.) WITHIN MIDSHIP DECK HOUSE LEADING TO PERCEL ROOM 06. IN TWEEN DECK, DECK OPENING 1380 x 1100 PROTECTED BY STEEL CASING WITH STEEL DOOR OPERABLE FROM BOTH SIDES WITH SILL 380.~~ IN UPP. DK. (P.S.) WITHIN AFTER DECK HOUSE LEADING TO STEERING ENGINE COMPARTMENT, STRONGLY CONSTRUCTED OF STEEL PROTECTED BY STEEL CASING WITH STEEL W.T. DOOR OPERABLE FROM BOTH SIDES, WITH SILL 610, DECK OPENING 1350 x 780 (COAMING 230 HIGH) STAIRWAY OPENING IN BRIDGE DECK HOUSE, DECK OPENING (S.S. FWD) 1800 x 900 & (S.S. AFT) 1630 x 680 LEADING TO UPPER DECK ACCOMMODATION.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :-

FORECASTLE DECK. 1- GOOSE NECK VENTILATOR 150 DIA x 8 480 HIGH WITH W.T. STEEL FLAP.
UPPER DECK MIDSHIP 4- GOOSE NECK VENTILATOR @ 150 DIA x 8 820 HIGH WITH W.T. STEEL FLAP.
UPPER DECK AFT 1- MUSHROOM VENTILATOR 400 DIA x 10 900 HIGH WITH W.T. STEEL FLAP.
WINCH PLATFORM 1- MUSHROOM VENTILATOR 300 DIA x 10 760 HIGH ON NOS. 1 & 3 WINCH PLATFORM.
2- MUSH ROOM VENTILATOR @ 400 DIA x 10 760 HIGH ON NOS. 2 & 4 WINCH PLATFORM.
2- MECHANICAL VENT. (PLENUM TYPE) 760 HIGH x 10. DECK OPENING 500 x 600 & 500 x 700 ON NO. 1 WINCH PLATFORM.
3- " " (") 760 " x 10 " " @ 500 x 700 ON NO. 2 WINCH PLATFORM.
2- " " (") 760 " x 10 " " 500 x 600 & 500 x 700 ON NO. 3 WINCH PLATFORM.
2- " " (") 760 " x 10 " " 500 x 600 & 500 x 700 ON NO. 4 WINCH PLATFORM.
AFT DOCKING BRIDGE 1- " " (") 760 " x 10 " " 500 x 600 ON AFT DOCKING BRIDGE.
1- COWLHEAD VENTILATOR 300 DIA. COAMING 760 x 9 FOR STEERING COMPARTMENT. - WOOD PLUG & CANVAS COVER.
1- MUSHROOM VENTILATOR 400 DIA x 10 760 HIGH.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :-

FORECASTLE DECK 1- 4" DIA x 18" HIGH.
1- 2 1/2" DIA x 18" HIGH.
UPPER DECK 41- @ 4" DIA. x }
3- @ 3" DIA. x } 33" ~ 36" HIGH, BRACKETED TO BULWARK
1- 2 1/2" DIA. x }
8- @ 2" DIA. x }

ALL AIR PIPES ARE OF GOOSE NECK TYPE FITTED WITH HINGED FLAP COVER, COPPER FLOAT BALL AND CRIMP WIRE NET.
AIR PIPES TO OIL TANKS ARE FITTED WITH WIRE GAUZE IN ADDITION TO THE ABOVE.

Particulars of Gangway Cargo and Coaling Ports :-

NONE.

Particulars of Scuppers and Sanitary Discharge Pipes :-

SCUPPERS

1 @ 100mm DIA. (P&S) DRAINAGE FORECASTLE DECK }
3 @ 100mm DIA. (P&S) DRAINAGE UPPER DECK } LED OVERBOARD BELOW FREE BOARD DECK.
5 @ 125mm DIA. (P&S) " " " NO NON-RETURN VALVE FITTED. ✓
1 @ 150mm DIA. (P&S) " " " ✓
1 @ 50mm DIA. (P&S) DRAINAGE FORECASTLE DECK, LED TO UPPER DECK ✓
STEERING GEAR & CHAIN LOCKER COMPARTMENTS DRAINED BY EDUCTOR.

DISCHARGE

1 @ 150mm DIA. (P&S) DISCHARGE FROM MIDSHIP ACCOMMODATION }
3 @ 125mm DIA. (P&S) " " " } LED OVERBOARD BELOW FREE BOARD DECK
1 @ 150mm DIA. (PORT SIDE ONLY) " " " NON-RETURN VALVE & GEARED STORM VALVE FITTED ✓

Particulars of Side Scuttles and Deadlights :-

2 (P&S) TO STEERING ENGINE COMPARTMENT } 250mm DIA. BRONZE HINGED SIDE SCUTTLES WITH MALLEABLE CAST IRON HINGED
4 (S.S.) & 2 (P.S.) TO FORECASTLE SPACE } DEAD LIGHTS, PORTABLE STEEL PLUGS FITTED OUTSIDE. ✓
9 TO UPPER DECK HOUSE, FRONT WALL - 300mm DIA. ALUMINIUM ALLOY HINGED SIDE SCUTTLE WITH ALUMINIUM ALLOY HINGED DEAD LIGHTS, PORTABLE STEEL PLUGS OUTSIDE.
36 TO UPPER DECK HOUSE, SIDE & AFTER WALL - 300mm DIA. ALUMINIUM ALLOY HINGED SIDE SCUTTLES WITH PORTABLE STEEL PLUG ONLY.
79 TO SUPERSTRUCTURE DECK HOUSE ABOVE BRIDGE DECK - 300mm DIA. ALUMINIUM ALLOY HINGED SIDE SCUTTLES WITHOUT PLUG.

Vertical distance of Sill of lowest Side Scuttle above top of keel 12.1 METRES

Distance from amidships to centre of lowest Side Scuttle 69.355 METRES

Particulars of Guard Rails and Bulwarks :-

FORECASTLE DECK. TWO RAILS, 1.0 METRE HIGH WITH UPRIGHT SPACED 1.3 ~ 1.5 METRES APART.

Particulars of Gangways, Lifelines, etc. :-

MEANS FOR RIGGING LIFELINE PROVIDED. ✓

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ...	53.3 M	1.15 M	1330mm x 230mm SEMICIRCULAR ENDS	14	4.1 M ²	3.244 M ²
Forward Well ...	50.6 M	1.15 M	FORWARD ONE PORT 1100mm x 230mm REMAINDER 1330mm x 230mm SEMICIRCULAR ENDS	1 & 10	3.2 M ²	3.080 M ²

State position of each freeing port ... After Well :- 3.2, 4.8, 9.6, 11.2, 16.0, 17.6, 22.4, 24.0, 28.8, 30.4, 35.2, 36.8, 41.6 & 43.2 METRES ABOARD AFT END OF BRIDGE (F. and A. position and height above deck edge) Forward Well :- 3.3, 4.9, 9.7, 11.3, 16, 17.7, 22.5, 24.3, 28.9, 30.5 & 34.8 METRES FORWARD OF BRIDGE FRONT.

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :- NONE FITTED.

Additional area where sheer is less than standard.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.									
Description of Hatchway	...	...	No 1	No 2	No 3	No 4	No 5	No 6	IN DECKHOUSE
Dimensions of Hatchway	...	...	METRES 7.535 x 4.500	METRES 12.570 x 7.000	METRES 11.200 x 7.000	METRES 10.400 x 7.000	METRES 12.000 x 7.000	METRES 7.200 x 5.000	1380 x 1100 -/-
COAMINGS	Height above Deck	...	745	950	950	950	950	745	260
	Thickness	{ Sides ...	11	12.5	12.5	12.5	12.5	11	10
		{ Ends ...	11	11	11	11	11	11	10
	Stiffeners ...	{ Sides ...	310 x 25 F.B.	280 x 11 F.B.	280 x 11 F.B.	280 x 11 F.B.	280 x 11 F.B.	310 x 11 F.B.	-
	Brackets, Stays	{ Ends ...	10 mm FL.	11 mm FL.	11 mm FL.	11 mm FL.	11 mm FL.	10 mm FL.	-
HATCH BEAMS	Number	...							
	Spacing	...							
	Scantling and Sketch	...							
	Bearing Surface	...							
FORE AND AFTERS	Number	...							
	Spacing	...							
	Unsupported Lengths	...							
	Scantling* and Sketch	...							
	Bearing Surface	...							
HATCH COVERS	Material	...							WOOD
	Thickness	...							73 -/-
	How fitted	...	MACGREGOR PATENT STEEL HATCH COVERS						
	Bearing Surface	...							
Spacing of Cleats	...	...							445 & 560 -/-
Number of Tarpaulins	...	...							2
*Are wood fore and afters steel shod at all bearing surfaces? /									
Are battens and wedges efficient and in good condition? YES									
Are tarpaulins in good condition and in accordance with rule requirements? YES									
Are lashings provided in accordance with rule requirements? LOCKING BARS.									
Are wood covers fitted with galvanised end bands? /									

Particulars of any special features :— (Timber Deck-cargo Fittings, Skylights, Sewage Systems, Ash Ejectors, Rubbish Shoots, etc.)

MACGREGOR PATENT STEEL HATCH COVERS. Per. A fixed plans?							
AS APPROVED.							
HATCH	No. OF COVERS	PLATING	STIFFENERS	STIFFENERS AT EDGE	SPACING OF STIFFENERS	CENTRE GIRDER	SIDE GIRDER
NO. 1	2 (HINGED)	9 mm.	240/300 x 8 mm WEBS 100/150 x 16 mm FACE BARS	240/300 x 9 mm WEBS 125 x 50 x 6 mm CH. F.B.	300 mm To 720 mm	300 x 8 mm WEB 100 x 16 mm F.B.	8 mm WEB 100 x 16 mm F.B.
NO. 2	6	9 "	195/295 x 8 mm WEBS 200/210 x 16 mm FACE BARS	195/295 x 8/18 mm WEBS 100 x 120 x 16 mm F.B. 90 x 40 x 9 mm ANG. F.B.	678 " " 700 "	295 x 8 mm WEB 75 x 16 mm F.B.	10 mm WEB 75 x 40 x 6 mm ANG. F.B.
NO. 3	6	9 "	195/295 x 8 mm WEBS 180 x 16 mm. FACE BARS	195/295 x 8/10 mm WEBS 100 x 16 mm F.B. 90 x 40 x 9 mm ANG. F.B.	572 " " 715 "	295 x 8 mm. WEB 75 x 16 mm F.B.	10 mm WEB 75 x 40 x 6 mm ANG. F.B.
NO. 4	5	9 "	195/290 x 8 mm WEBS 200/190 x 16 mm FACE BARS	195/290 x 8/10 mm WEBS 100 x 16 mm F.B. 90 x 40 x 9 mm ANG. F.B.	670 " " 703 "	290 x 8 mm WEB 75 x 16 mm F.B.	10 mm WEB 75 x 40 x 6 mm ANG. F.B.
NO. 5	6	9 "	195/295 x 8 mm WEBS 180 x 16 mm FACE BARS	195/295 x 8/10 mm WEBS 100 x 16 mm F.B. 90 x 40 x 9 mm ANG. F.B.	642 " " 730 "	295 x 8 mm WEB 75 x 16 mm F.B.	10 mm WEB 75 x 40 x 6 mm ANG. F.B.
NO. 6	2 (HINGED)	9 "	145/220 x 8 mm WEBS 120 x 16 mm FACE BARS	145/220 x 9 mm WEBS 125 x 50/65 x 6 mm CH. F.B.	570 " " 690 "	220 x 8 mm WEB 100 x 16 mm F.B.	8 mm WEB 100 x 16 mm F.B.
CROSS JOINT WEDGES SPACED 850 mm APART CLEATS SPACED 850/991 -/-.							
8 mm BEAM TRIPPING BRACKETS FITTED 1275 & 2475 mm OFF £ (P+S) ON NOS. 2, 3, 4 & 5 COVERS							

SMALL HATCHWAY. Cleats around covers?					
NO. OFF.	POSITION	SIZE	COAMING	COVER	REMARKS
1	ON FORECASTLE DECK	550 mm DIA.	460 x 11	STEEL W.T. 6 -/-	ROPE HATCH SECURED BY 4-3/4" DIA TOGGLES
4	UPPER DECK WITHIN FORECASTLE	1 @ 675 x 1000 1 @ 520 x 570 2 @ 610 x 520	230 x 11 230 x 11 230 x 11	WOOD 73 -/- STEEL W.T. 4.5 -/- WOOD 73 -/-	TO BOATSWAIN STORE NO. 1 T.D. CHAIN LOCKER ONE FASTENER.
1	UPPER DECK WITHIN NO. 1 WINCH HOUSE	500 x 550	230 x 11	STEEL W.T. 6 -/-	TO NO. 2 T.D. SECURED BY 5-3/4" DIA TOGGLES SPACED 385 & 400 -/-.
1	UPPER DECK WITHIN NO. 2 WINCH HOUSE	500 x 550	230 x 11	STEEL W.T.	TO NO. 3 T.D. WINCH HOUSE STRONGLY CONSTRUCTED OF STEEL WITH W.T. STEEL HINGED DOORS (CLASS 1) & SILL 380 mm.
2	UPPER DECK WITHIN NO. 3 WINCH HOUSE	500 x 550	230 x 11	STEEL W.T.	TO NOS. 4 & 5
1	UPPER DECK WITHIN AFT DECK HOUSE	520 x 550	230 x 11	STEEL NON W.T. 4.5 -/-	TO NO. 6 T.D. - DECK HOUSE STRONGLY CONSTRUCTED OF STEEL WITH W.T. STEEL H. DOOR (CLASS 1) & SILL 610 mm ONE FASTENER.
1	AFT UPPER DECK	550 mm DIA	460 x 11	STEEL W.T. 6 -/-	ROPE HATCH SECURED BY 4-3/4" DIA TOGGLES.