

3253
11 JAN 1956

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches and fuses Yes Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted Yes Is an alternative supply provided Yes

Secondary Batteries, are they constructed and fitted as per Rule Yes for Int. Communication - 24V - 200AH - 2 sets are they adequately ventilated Yes state battery capacity in ampere hours " W/T " " - 1 set

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present Yes if so, how are they protected Lighting-Fittings - flame-proof, approved type and where are the controlling switches fitted Safety Space in living quarter Are all fittings suitably ventilated Yes

Searchlight Lamps, No. of ---, whether fixed or portable ---, are they of the carbon arc or of the filament type ---

Heating and Cooking, is the general construction as per Rule Yes, are the frames effectually earthed Yes, are heaters in the accommodation of the convection type Yes Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil Yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment Yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing Yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule Yes

Control Gear and Resistances, and they constructed and fitted as per Rule Yes Lightning Conductors, where required are they fitted as per Rule --- Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with Yes, are all fuses of an Approved Cartridge Type Yes, make of fuse Fuji Electric Mfg. Co., Ltd. Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships Yes Are the cables lead covered as per Rule Yes

E. S. D., if fitted state maker Nihon Denki K.K. location of transmitter For Pump Rm Bottom and receiver Fore Pump Rm Bottom (FNo. 194-195)S.S. (FNo. 194-195)S.S. Yes

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations Yes

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory Yes

PARTICULARS OF GENERATING PLANT.

| DESCRIPTION OF GENERATOR. | No. of | MAKER. | K.V.A. RATED AT | | | | PRIME MOVER. | |
|------------------------------|--------|---------------------------------|-----------------|----------|----------------|-------|--------------|----------------------|
| | | | Volts. | Amperes. | Revs. per Min. | TYPE. | MAKER. | |
| MAIN | 2 | Tokyo, Shibaura Elec. Co., Ltd. | 500 | 450 | 641 | 1200 | Turbo-Engine | Shin Mitsubishi Tuko |
| Aux. | 1 | " | 90 | " | 115 | 600 | Diesel- | Daihatsu Kogyo |
| EMERGENCY ROTARY TRANSFORMER | | | | | | | | |

GENERATOR CABLES.

| DESCRIPTION. | K.V.A. | CONDUCTORS. | | MAXIMUM CURRENT IN AMPERES. | | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|---------------------------|--------|---------------------------|--|-----------------------------|-------|---|-------------|----------------------|
| | | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. Sq. mm. | In the Circuit. | Rule. | | | |
| MAIN GENERATOR | 500 | 3 | 37/2.36 | 641 | 693 | 66 | V.C. | LS & S.W.B. |
| " " EQUALISER | | | | | | | | |
| Aux. Generator | 90 | 1 | 19/2.11 | 115 | 128 | 21 | " | " " |
| EMERGENCY GENERATOR | | | | | | | | |
| ROTARY TRANSFORMER: MOTOR | | | | | | | | |
| " " GENERATOR | | | | | | | | |

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

| DESCRIPTION. | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. Sq. mm. | MAXIMUM CURRENT IN AMPERES. | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|---------------------------------|---------------------------|--|-----------------------------|---|-------------|----------------------|
| Engine room Section box 5-5 | 1 | 7/1.63 | 18.5 | 51 | 26 | V.C. L.S. & S.W.B. |
| " " 5-7 | 1 | 19/1.32 | 47 | 70 | 33 | " " |
| " " 5-6 | 1 | 7/1.63 | 17 | 51 | 99 | " " |
| " " A - 2-1 | 1 | " | 29.5 | " | 49 | " " |
| " " A - 2-4 | 1 | " | 14.5 | " | 66 | " " |
| " " A - 3-3 | 1 | 19/2.11 | 63.5 | 128 | 33 | " " |
| " " A - 3-4 | 1 | 7/1.63 | 21 | 51 | " | " " |
| Work Shop " 5-8 | 1 | 19/1.32 | 45.5 | 70 | 82 | " " |
| Ref. Machine room " A - 2-2 | 1 | 7/1.63 | 29 | 51 | 125 | " " |
| Poop deck section board A - 2-4 | 1 | " | 18 | " | 66 | " " |
| Upper deck S.S. " A - 3-5 | 1 | " | 15.8 | " | " | " " |
| " " " A - 3-2 | 1 | 19/2.11 | 71.2 | 128 | " | " " |

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

| DESCRIPTION. | CONDUCTORS. | | MAXIMUM CURRENT IN AMPERES. | | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|--|---------------------------|--|-----------------------------|-------|---|-------------|----------------------|
| | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. | In the Circuit. | Rule. | | | |
| Engine room section box A-3-3 | 1 | 19/2.11 | 63.5 | 128 | 33 | V.C. | L.S. & S.W.B. |
| " " " " A-3-4 | 1 | 7/1.63 | 21 | 51 | " | " | " " |
| From Main SW. board to Aux. Switch board | 1 | 37/2.11 | 200 | 200 | 50 | " | " " |
| " Aux. Sw.bd. to Gang-way junction Box | 1 | 19/2.11 | 100 | 128 | 122 | " | " " |
| " Gang-way junction Box to Midship Sub.Sw. | 1 | 19/2.11 | 100 | 128 | 240 | " | " & S.W.A |
| 15 KV Transformer Primary | 1 | 7/1.63 | 38.4 | 51 | 16 | " | " & S.W.B |
| " Secondary | 1 | 37/1.83 | 150 | 166 | " | " | " " |
| Navigation Light (From Aux. switchboard to gangway junction Box) | 1 | 7/1.63 | 1.8 | 33 | 122 | V.R. | " " |
| From Aft. gang-way junction Box to F'd " | 1 | " | " | " | 230 | " | " & S.W.A |
| F'd gang-way junction Box-Navigation Light Ind.1 | 1 | " | " | " | 49 | " | " & S.W.B |
| Wireless Switchboard | 1 | " | 30 | 51 | " | V.C. | " " |
| Saloon Pantry Section Box S-2 | 1 | " | 13.9 | 32 | 43 | V.R. | " " |
| Midship Section Board S-1 | 1 | 19/2.11 | 74.8 | 141 | 3 | V.C. | " " |
| Midship Sub-Switch Board S-3 | 1 | 7/1.63 | 17 | 56 | " | " | " " |
| Consent for Suez Searchlight | 1 | 19/1.32 | 27.2 | 64 | 230 | V.R. | " & S.W.A |
| Shore Connection Box | 1 | 37/2.11 | 200 | 200 | 66 | V.C. | " & S.W.B. |
| Heater | 1 | 7/0.91 | 9.1 | 24 | 49 | V.R. | " " |

MOTOR CABLES.

| ALL IMPORTANT MOTORS TO BE ENUMERATED. | No. | B.H.P. | CONDUCTORS. | | MAXIMUM CURRENT IN AMPERES. | | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|--|-----|--------|---------------------------|--|-----------------------------|-------|---|-------------|----------------------|
| | | | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. Sq. mm. | In the Circuit. | Rule. | | | |
| Steering Gear | 2 | 25 | 1 | 7/1.63 | 32 | 51 | 207 | V.C | L.S. & S.W.B. |
| Main Circulating Pump | 1 | 140 | 1 | 37/2.11 | 168 | 200 | 66 | " | " |
| Aux. Circulating " | 1 | 75 | 1 | 19/2.11 | 93 | 128 | 83 | " | " |
| Boiler Draft Fan | 2 | 70 | 1 | " | 87 | " | " | " | " |
| Fuel Oil Service Pump | 2 | 7.5 | 1 | 7/0.91 | 11 | 12 | 56 | V.R | " |
| " Trans, " | 1 | 5 | 1 | 7/0.74 | 7.5 | 11 | 99 | " | " |
| Lub. Oil " | 2 | 35 | 1 | 7/1.63 | 46 | 51 | 66 | V.C | " |
| Condensate " | 2 | 30 | 1 | " | 39 | " | " | " | " |
| Aux. Condensate " | 2 | 1.5 | 1 | 7/1.74 | 2.5 | 11 | 83 | V.R | " |
| Atmospheric Drain P. | 2 | 25 | 1 | 7/1.63 | 32 | 51 | " | V.C | " |
| G.S. & Fire P. | 1 | 50 | 1 | 19/1.32 | 63 | 70 | 49 | " | " |
| L.O. Purifier | 1 | 3 | 1 | 7/0.74 | 4.5 | 11 | 59 | V.R | " |
| Engine Turning Gear | 1 | 10 | 1 | 7/1.12 | 14 | 16 | 49 | " | " |
| Eng. & Boiler Room Vent. F. | 3 | 7.5 | 1 | 7/0.91 | 11 | 12 | 105 | " | " |
| Pump Room Vent. Fan | 1 | 10 | 1 | 7/1.12 | 14 | 16 | 99 | " | " |
| Ref. Machine Air Compressor | 2 | 7.5 | 1 | 7/0.91 | 11 | 17 | 33 | " | " |
| " Cool. water P. | 2 | 2 | 1 | 7/0.74 | 3 | 11 | 99 | " | " |
| G.S. Air Compressor | 2 | 7.5 | 1 | 7/0.91 | 11 | 12 | 49 | " | " |
| Starting " | 1 | 5 | 1 | 7/0.74 | 7.5 | 11 | " | " | " |
| Evaporator Feed P. | 1 | 10 | 1 | 7/1.12 | 13 | 16 | 16 | " | " |
| " Brine P. | 1 | 1.5 | 1 | 7/0.74 | 2.4 | 11 | 33 | " | " |
| Make-up Evaporator P. | 1 | 1 | 1 | " | 1.6 | 11 | 16 | " | " |
| Electric Welder | 1 | 200 | 1 | 7/1.63 | 36.5 | 51 | " | V.C | " |
| Universal Lathe | 1 | 5 | 1 | 7/0.74 | 7.5 | 11 | 33 | V.R. | " |
| Drill | 1 | 2 | 1 | " | 3 | 11 | " | " | " |
| Grinder | 1 | 1 | 1 | " | 1.5 | 11 | " | " | " |
| Aux. Gen. Cooling W.P. | 1 | 3 | 1 | " | 4.5 | 11 | 66 | " | " |
| Sanitary " | 1 | 7.5 | 1 | 7/0.91 | 10 | 12 | 39 | " | " |
| Fresh Water P. | 1 | 3 | 1 | 7/0.74 | 4.5 | 11 | " | " | " |
| Cabin Vent. Fan | 3 | 5 | 1 | " | 7.5 | 15 | 99 | " | " |
| Galley burner fan | 1 | 1 | 1 | " | 1.5 | " | 66 | " | " |
| Laundry machine | 1 | 1 | 1 | " | " | " | 99 | " | " |
| Boiler tube cleaner | 1 | 2 | 1 | 7/0.91 | 12 | 17 | " | " | " |
| Bridge fresh W.P. | 1 | 1.5 | 1 | 7/0.74 | 2.4 | 15 | 23 | " | " |

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.
 All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

THE HARIMA SHIPBUILDING AND
 ENGINEERING COMPANY, LTD.
 5292 Aioi, Aioi-shi,
 Hyogo-ken, Japan.

Machibana
 Director

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions

YES.

THE HARIMA SHIPBUILDING AND
 ENGINEERING COMPANY, LTD.
 5292 Aioi, Aioi-shi,
 Hyogo-ken, Japan.

Machibana
 Director

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct..... Yes

Is this installation a duplicate of a previous case Yes If so, state name of vessel Daikyo Maru

Plans. Are approved plans forwarded herewith No If not, state date of approval 22-8-1955
 8-4-1955

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith Yes

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The Electric installation of this vessel has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The Materials and workmanship are sound and good.

The generators and motor etc., have now been examined under full load working condition to the Rules requirement and found satisfactory.

Total Capacity of Generators 1090 K.V.A. Kilowatts.

The amount of Fee... ^{K.O.B.E.} 241,000 When applied for, DEC. 29, 1955
 70,200 5/8/55 When received,

Travelling Expenses (if any) See Rpt. 1: 19

S. C. Jansson & K. Sakurai
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 13 APR 1956

Assigned See Rpt. 4 a.

MADE AND PRINTED AT KOTE.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

19/1/56



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 Foundation