

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 OCT 1940

Received at London Office

OCT 26 1940

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of **HULL**No. in Survey held at **Hull** Date, First Survey **14.8.40.** Last Survey **8.10.1940**
Reg. Book. (Number of Visits **6.**)on the **H.M.T. "MORRIS DANCE"** Tons (Gross **452**)
(Net **142**)Built at **Goole** By whom built **Goole Shipbuilding & Repairing Co.,** Yard No. **351** When built **1940-10**Owners **The Admiralty** Port belonging to.....Electrical Installation fitted by **The Humber Electrical Engineering Co. Ltd.** Contract No. **✓** When fitted **1940-10**Is vessel fitted for carrying Petroleum in bulk **No.** Is vessel equipped with D.F. **✓** E.S.D. **✓** Gy.C. **✓** Sub.Sig. **✓**Have plans been submitted and approved **Yes** System of Distribution **Parallel - constant current** Voltage of supply for Lighting **110**
two-wireHeating **110** Power **✓** Direct or Alternating Current, Lighting **Direct** Power **✓** If Alternating Current state frequency **✓** Prime Movers,has the governing been tested and found efficient when the whole load is suddenly thrown on and off **Yes** Are turbine emergency governors fitted with atrip switch as per Rule **✓** Generators, are they compound wound **Yes**, are they level compounded under working conditions **Yes**,if not compound wound state distance between generators **✓** and from switchboard **✓** Where more than one generator is fitted are theyarranged to run in parallel **✓**, are shunt field regulators provided **Yes** Is the compound winding connected to the negative or positive pole**Positive** Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing **✓** Have certificates oftest for machines under 100 kw. been supplied **✓** and the results found as per rule **✓** Are the lubricating arrangements and the constructionof the generators as per rule **Yes** Position of Generators **Engine Room**is the ventilation in way of generators satisfactory **Yes** are they clear of inflammable material **Yes**, if situatednear unprotected combustible material state distance from same horizontally **✓** and vertically **✓**, are the generators protected from mechanicalinjury and damage from water, steam and oil **Yes**, are the bedplates and frames earthed **Yes** and the prime movers and generators in metalliccontact **Yes** Switchboards, where are main switchboards placed **Engine Room Adjacent to generator**are they in accessible positions, free from inflammable gases and acid fumes **Yes**, are they protected from mechanical injury and damage from water, steamand oil **Yes**, if situated near unprotected combustible material state distance from same horizontally **✓** and vertically **✓**, what insulationmaterial is used for the panels **Units mounted on frame work insulated with mica strips**, if of synthetic insulating material is it an Approved Type **✓**, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule **✓** Is the frame effectually earthed **Yes**Is the construction as per Rule **Yes**, including accessibility of parts **Yes**, absence of fuses on the back of the board **Yes**, individual fusesto pilot and earth lamps, voltmeters, etc. **Yes** locking of screws and nuts **Yes**, labelling of apparatus and fuses **Yes**, fuses on the "dead"side of switches **Yes** Description of Main Switchgear for each generator and arrangement of equaliser switches**D.P. Switches + fuses.**and for each outgoing circuit **D.P. Switches + fuses.**Are compartments containing switchboards composed of fire-resisting material or lined as per Rule **Yes** Instruments on main switchboard **One**ammeters **One** voltmeters **✓** synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection **✓** Earth Testing, state means provided **Earth lamps + switches, Megger.**

PARTICULARS OF GENERATING PLANT

| PARTICULARS OF GENERATING PLANT. | | | | | | WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE. | | |
|----------------------------------|--------|------------|--------|----------|----------------|--|--|----------------------|
| DESCRIPTION OF GENERATOR. | No. of | RATED AT | | | | DRIVEN BY | WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE. | |
| | | Kilowatts. | Volts. | Ampères. | Revs. per Min. | | Fuel Used. | Flash Point of Fuel. |
| MAIN | One | 15 | 110 | 136 | 500 | Steam Engine | ✓ | ✓ |
| | | | | | | | | |
| EMERGENCY | | | | | | | | |
| ROTARY TRANSFORMER | | | | | | | | |

GENERATOR CABLES

| DESCRIPTION. | KILOWATTS. | CONDUCTORS. | | MAXIMUM CURRENT IN AMPERES. | | APPROX. LENGTH (lead plus return feet). | INSULATED WITH. | HOW PROTECTED. |
|----------------------------------|------------|---------------------------|--|-----------------------------|-------|---|-----------------|----------------|
| | | No. in Parallel For Pole. | Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. | In the Circuit. | Rate. | | | |
| MAIN GENERATOR | 15 | One | 27/072 | 136 | 152 ✓ | 18 | V.I.R. | L.C. |
| " " EQUALISER | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| EMERGENCY GENERATOR | | | | | | | | |
| ROTARY TRANSFORMER: MOTOR | | | | | | | | |
| " " GENERATOR | | | | | | | | |

MAIN DISTRIBUTION CABLES.

| AUX. SWITCHBOARDS AND SECTION BOARDS | | D. G. | | MAIN DISTRIBUTION | | | | GENERAL | |
|--------------------------------------|--|-------|--------|-------------------|-----|---|-----|---------|------|
| | | One | 7/044 | 30 | 31 | ✓ | — | V.I.R. | L.C. |
| Navigation | | " | 7/036 | 15 | 24 | ✓ | 150 | " | " |
| Wireless | | " | " | 25 | " | | 135 | " | " |
| Phone connection | | " | 37/072 | 136 | 152 | ✓ | 70 | " | " |
| Hard Lighting | | " | 7/044 | 23 | 31 | ✓ | 150 | " | " |
| Soft do. | | " | " | 29 | " | | 120 | " | " |
| Hard Radiator | | " | " | 18 | " | | 150 | " | " |
| Soft do. | | " | " | 27 | " | | 120 | " | " |
| Sundic | | " | " | — | " | | — | " | " |

LIGHTING AND HEATING, ETC., CABLES.

| LIGHTING AND HEATING, ETC. | | LIGHTING | | HEATING | | ELECTRICITY | | ELECTRICITY | |
|----------------------------|-----|----------|--------|---------|----|-------------|--------|-------------|---|
| NAVIGATION LIGHTS | ... | One | 1/044 | 1.5 max | 5 | 240 max | V.I.R. | L.C. | |
| LIGHTING AND HEATING | ... | One | 7/0076 | do. | 10 | 90 max | " | " | Tough Rubber sheathing + in some cases P.B. Braiding. |
| ... | ... | One | 1/004 | 3 max | 5 | 140 max | " | " | L.C. |
| ... | ... | " | 3/036 | 9 | 10 | 20 max | " | " | " |
| ... | ... | " | 7/036 | 19 | 24 | 140 | " | " | " |

MOTOR CABLES.

[illegible]

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.

IN THE HOUSE OF COMMONS
10th NOVEMBER 1940

W. E. Shuttleworth

Electrical Engineers.

Date 21/10/40

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

The nearest cables to the compasses are as follows:—

A cable carrying Ampères feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power.....

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted.....

The maximum deviation due to electric currents was found to be degrees on course in the case of the

standard compass, and degrees on course in the case of the steering compass.

Builder's Signature. Date.....

Is this installation a duplicate of a previous case..... Yes..... If so, state name of vessel H.M.T. Tanclango.

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

This installation has been fitted on board in accordance with the approved Admiralty Plans + requirements + the Society's Rules. The workmanship + materials are good and when subjected to the tests required by the Admiralty + prescribed in the Rules + also when tried under full working conditions this installation was found satisfactory in every respect.

Noted

L. J.

31/10/40.

Total Capacity of Generators..... 15 Kilowatts.

The amount of Fee ... £ 15 : 0 : 0

When applied for,

23-06-1940

Travelling Expenses (if any) £ : :

When received,

17-12-1940

Ricky J. Hallison

Surveyor to Lloyd's Register of Shipping.

FRI. 1 NOV 1940

Committee's Minute.....

Assigned..... See Hul 7E 50895

(MADE IN ENGLAND.)
2m.10.33.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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