

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office... JAN 27 1941

Date of writing Report... 15-1-1941 When handed in at Local Office... 23 JAN 1941 Port of... **HULL**

No. in Survey held at... **Hull & Goole.** Date, First Survey... 27.11.40 Last Survey... 14.1.1941
Reg. Book. (Number of Visits... 8...)

on the... **H.M.T. MACBETH** Tons {Gross... 452 Net... 142

Built at... **Goole** By whom built... **Goole S.B. & Pepp Co** Yard No... 355 When built... 1941

Owners... **The Admiralty** Port belonging to...

Electrical Installation fitted by... **The Humber Electrical Engineering Co Ltd** Contract No... When fitted... 1941

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**
live wire

Heating... **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 a trip 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 they arranged 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 of test for machines under 100 kw. been supplied... **✓** and the results found as per rule... **✓** Are the lubricating arrangements and the construction of 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 situated near unprotected combustible material state distance from same horizontally... **✓** and vertically... **✓**, are the generators protected from mechanical injury and damage from water, steam and oil... **Yes**, are the bedplates and frames earthed... **Yes** and the prime movers and generators in metallic contact... **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, steam and oil... **Yes**, if situated near unprotected combustible material state distance from same horizontally... **✓** and vertically... **✓**, what insulation material 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 of semi-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 fuses to 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 the equaliser connection... **✓** Earth Testing, state means provided... **Earth lamps + switches, 110v**

... **✓**

... **✓**

... **✓**

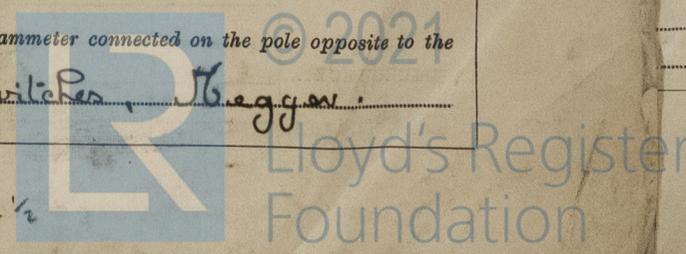
... **✓**

... **✓**

... **✓**

... **✓**

... **✓**



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.

W. E. Putterill

Electrical Engineers.

Date

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.

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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. BIRCH.

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.F.
27/1/41

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ... £ 15 : : When applied for 23 JAN 1941

Travelling Expenses (if any) £ : : When received. 19

Surveyor to Lloyd's Register of Shipping.

TUE. 23 JAN 1941

Committee's Minute

Assigned

See H.L.F. 51058

(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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