

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office... DEC - 2 1940

Date of writing Report... 19 When handed in at Local Office... 30. 11. 40 Port of... Belfast
 No. in Survey held at... Belfast Date, First Survey... 2nd Oct. Last Survey... 18 Nov 1940
 Reg. Book... H. M. Conette Freesia Tons { Gross 724.47
 Net 265.49

Built at... Belfast By whom built... Harland & Wolff Ltd Yard No. 1074 When built... 1940
 Owners... The Admiralty Port belonging to...
 Electrical Installation fitted by... Harland & Wolff Ltd Contract No. J3442 When fitted... 1940
 Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No
Asdic Fitted

Have plans been submitted and approved... Yes System of Distribution... Two Wire Voltage of supply for Lighting... 110
 Heating... 110V Power... — Direct or Alternating Current, Lighting... D.C. 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... Yes, 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... Yes and the results found as per rule... Yes Are the lubricating arrangements and the construction
 of the generators as per rule... Yes Position of Generators... In Engine Room, One Port and the other on the
Starboard Side, 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... In Engine Room adjacent to Starboard
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... Live parts mounted on micaite to
Admiralty Spec. & Approved Plan, 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... Triple Pole Circuit
Breakers: One Pole Equaliser, with Reverse Current, Overload and No Volt Trips.

and for each outgoing circuit... 10 P. switches & Fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... — Instruments on main switchboard... A
 ammeters... 2 voltmeters... 2 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



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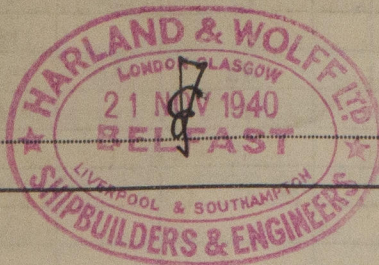
| PARTICULARS OF GENERATING PLANT. | | | | | | | | |
|----------------------------------|--------|------------|--------|----------|-------------------|--------------|---------------------------------------------------|----------------------|
| DESCRIPTION OF GENERATOR. | No. of | RATED AT | | | | DRIVEN BY | WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE. | |
| | | Kilowatts. | Volts. | Ampères. | Revs. per Min. | | Fuel Used. | Flash Point of Fuel. |
| MAIN | 2 | 15 | 110 | 136 | 500 | STEAM ENGINE | — | — |
| | | | | | | | | |
| | | | | | | | | |
| EMERGENCY .. | | | | | | | | |
| | | | | | | | | |
| ROTARY TRANSFORMER | | | | | | | | |

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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.



Electrical Engineers.

Date *Nov. 22nd '40*

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 102 FEET.

Minimum distance between electric generators or motors and steering compass..... 100 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 3 Ampères 4 feet from standard compass 10 feet from steering compass.

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

A cable carrying 36 Ampères 3½ feet from standard compass 4 feet from steering compass.

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

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

The maximum deviation due to electric currents was found to be Nil degrees on any course in the case of the standard compass, and Nil degrees on any course in the case of the steering compass.



Builder's Signature.

Date 25-11-40

Is this installation a duplicate of a previous case..... Yes

If so, state name of vessel

"Heather" BEL RPT No 12793

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

The electrical equipment of this vessel has been fitted onboard in accordance with the approved plans and the Admiralty Statement of Electrical Requirements for Corvettes (Patrol Vessels). The installation has been tested with the generators working independently and also with both machines running in parallel.

The circuit breakers with O/L and Reverse Current trips have been tested under working conditions with satisfactory results. The materials and workmanship are good.

Noted

5/12/40

Total Capacity of Generators..... 30 Kilowatts.

The amount of Fee ... £ 15 : - : 30 : 8 : 19

Travelling Expenses (if any) £ : : 11-12-1940

Chas. S. Thomas

Surveyor to Lloyd's Register of Shipping.

Mr. H. Hoffman & Co.

FRI. 6 DEC 1940

Committee's Minute

Assigned

See Bel. FE 12805