

# REPORT ON ELECTRICAL EQUIPMENT.

24 NOV 1944

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 16-10-1944 When handed in at Local Office... 16-10-1944 Port of... LIVERPOOL.

No. in Survey held at... NORTHWICH. Date, First Survey... 18-5-44 Last Survey... 17-10-1944 (Number of Visits... 4)

Reg. Book. on the... S.S. "EMPIRE FULHAM" Tons { Gross... 222 Net... }

Built at... NORTHWICH. By whom built... W. J. YARWOOD & SONS LTD. Yard No... 760 When built... 1944

Owners... Port belonging to... Electrical Installation fitted by... W. J. YARWOOD & SONS LTD. Contract No... 760 When fitted... 1944

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...

Have plans been submitted and approved... Yes System of Distribution... Three wire Voltage of supply for Lighting... 110

Heating... Power... Direct or Alternating Current, Lighting... D.C. Power... If Alternating Current state periodicity... Prime Movers,

has the governing been tested and found as per Rule when full 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

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.

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 near generators.

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... Shidonyo, if of synthetic insulating material is it an Approved Type... Yes, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed...

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... Double pole switch

and for each outgoing circuit... Double pole switch & fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 1

ammeters... 1 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the



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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.

W. & T. FARWOOD & SONS (1933) LTD.

*Albert Farwood*

Electrical Engineers.

Date 17/10/44

COMPASSES.

Minimum distance between electric generators or motors and standard compass —

Minimum distance between electric generators or motors and steering compass 40 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères — feet from standard compass 8 feet from steering compass.

A cable carrying 0.2 Ampères — feet from standard compass admit 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 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 — degrees on — course in the case of the standard compass, and — degrees on any course in the case of the steering compass.

*Albert Farwood*

Builder's Signature.

Date 17/10/44

Is this installation a duplicate of a previous case Yes. If so, state name of vessel "EMPIRE BARNABY."

Plans. Are approved plans forwarded herewith Yes. If not, state date of approval —

Certificates. Are certificates of test for motors engaged on essential 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 electrical

equipment of this vessel has been installed under special survey and in accordance with the approved plans & specification. The installation has been tested under full working conditions and found satisfactory. The materials and workmanship are good.

*Noted*

*HR*

29.11.44

Total Capacity of Generators 5. ✓ Kilowatts.

The amount of Fee ... £ 6 : 5 : 0 When applied for, 20 NOV 1944

Travelling Expenses (if any) £ : 15 : 0 When received, —

*H. Hafford*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 21 NOV 1944

Assigned See attached machinery report.

5m. 4. 3.—Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested to write on or below the space for Committee's Minute.)



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