

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

14 MAY 1947

Date of writing Report... 14th April 1947 When handed in at Local Office... 13.5.47 Port of... Glasgow
 No. in Survey held at... Dumbarton Date, First Survey... 29.1.47 Last Survey... 10th April 1947
 Reg. Book. 88412 on the S.S. "ORMARA" Tons { Gross 5414 Net 2992
 Built at Dumbarton By whom built Messrs Wm. Denny & Bros. Ltd. Yard No. 1401 When built 1944
 Owners Messrs British India Steam Navigation Co. Ltd. Port belonging to London.
 Electrical Installation fitted by Messrs Wm. Denny & Bros. Co. Ltd. Contract No. 1401 When fitted 1944
 Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No Sub.Sig. No.

Have plans been submitted and approved... Yes System of Distribution Two wire Voltage of supply for Lighting 110
 Heating Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. 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... No, are shunt field regulators provided... Yes Is the compound winding connected to the negative or positive pole
 Negative. 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 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... "Lindans" 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... 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. Switch and
 fuses.
 and for each outgoing circuit D.P. Switch and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard 2
 ammeters 2 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, Circuit Breakers and Fuses, are they as per Rule... Yes are the fuses an approved type... Yes are all fuses labelled as
 per Rule... Yes If circuit breakers are provided for the generators, at what overload current did they open when tested... are the reversed current
 protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current
 did they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... Yes
 Cables, are they insulated and protected as per the appropriate Tables of the Rules... Yes if otherwise than as per Rule are they of an approved type... W.F.
 state maximum fall of pressure between bus bars and any point under maximum load 4.5V are the ends of all cables having a sectional area of 0.04
 square inch and above provided with soldering sockets... Yes Are paper insulated and varnished cambric insulated cables sealed at the ends...

and found satisfactory. *Yes*

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.

A. Rodger

Electrical Engineers.

Date 12.5.47

COMPASSES.

Minimum distance between electric generators or motors and standard compass 16 ft.

Minimum distance between electric generators or motors and steering compass 15 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 0.01 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 20 Ampères 15 feet from standard compass 12 feet from steering compass.

A cable carrying 20 Ampères 15 feet from standard compass 12 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.

For WILLIAM DENNY & BROTHERS Limited

Builder's Signature.

Date.

Campbell

Secretary.

Is this installation a duplicate of a previous case No. If so, state name of vessel.

Plans. Are approved plans forwarded herewith No. If not, state date of approval 24/4/46

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Yes. Generator certificates will be forwarded when received.

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

The electrical equipment has been installed under Special Survey, tried under full working conditions and found satisfactory. The materials and workmanship are good.

Noted 23.5.47

Total Capacity of Generators 40 ✓ Kilowatts.

The amount of Fee ... £ 34 : 0 : When applied for, 22.4.1947

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

B. Haffner

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See Last Entry Report

GLASGOW 13 MAY 1947



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