

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 29.8.1924 When handed in at Local Office 15.9.1924 Port of GLASGOW.

No. in Survey held at GREENOCK. Date, First Survey 15.8.24 Last Survey 1.9.1924  
Reg. Book. (Number of Visits 3)88814 on the S.S. FORBISTGATE Tons { Gross 1600  
Net 887

Built at GLASGOW. By whom built BARCLAY CURRIE &amp; CO. Yard No. 604 When built 1924

Owners MANN, MACNEIL &amp; CO Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS ALEX ANDERSON LTD Contract No. 604 When fitted 1924

System of Distribution Twin Wiring

Pressure of supply for Lighting 100 volts, Heating — volts, Power — volts.

Direct or Alternating Current, Lighting Direct Power

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes.

Generators, do they comply with the requirements regarding overload Yes, are they compound wound Yes.

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel one only, is an adjustable regulating resistance fitted in series with each shunt field Yes.

Are all terminals accessible and clearly marked Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Yes.

Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Engine Room Starboard Side

is the ventilation in way of the generators satisfactory Yes, are they clear of all inflammable material Yes.

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

4' 6" and 4' 9", are the generators protected from mechanical injury and damage from water, steam or oil

are their axis of rotation fore and aft Yes.

Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes, are the prime movers and their respective generators in metallic contact Yes.

Main Switch Boards, where placed Engine Room Starboard aft.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard Same Compartment

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes.

are they protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards None and 3' 6"

are they constructed wholly of durable, incombustible non-absorbent materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes.

if semi-insulating material is used, are all conducting parts connected to one pole insulated from the slab with mica or micanite and the slab similarly insulated from its framework Yes, and is the frame effectively earthed Yes.

Are the following fittings as per Rule, viz.: — spacing or shielding of live parts

Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, proportion of omnibus bars Yes.

individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches Yes.

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches D. P. Main Switch

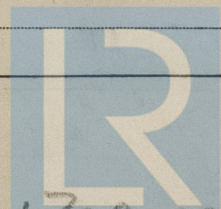
on Supply Leads S.P. distributing switches D.P. fuses on all circuits 1 dynamo only

Instruments on main switchboard 1 ammeters 1 voltmeters None synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system 2 Earth Lamps

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes.

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes.



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W1308-0097/12



If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

[illegible]



All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

For ALEXANDER ANDERSON, Ltd.

W. J. Budge

Electrical Engineers.

Date 8<sup>th</sup> Sept. 1924.

#### COMPASSES.

Distance between electric generators or motors and standard compass

No Motors 130 ft. to generator

Distance between electric generators or motors and steering compass

115 "

The nearest cables to the compasses are as follows:—

A cable carrying .02 Ampères 3 feet from standard compass 4 feet from steering compass.

A cable carrying 5 Ampères 10 feet from standard compass 8 feet from steering compass.

A cable carrying .04 Ampères 3 feet from standard compass 3 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

No

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 FRANKLYN CURLE & CO., LTD

H. J. Curley

SECRETARY

Builder's Signature.

Date 10/9/24.

Is this installation a duplicate of a previous case

No.

If so, state name of vessel

#### General Remarks

(State quality of workmanship, opinions as to class, &c.)

This installation has

been fitted on board under special survey.  
Tested under full working conditions  
and found satisfactory.  
The workmanship was found to be good  
and sound.

It is submitted that  
this vessel is eligible for  
THE RECORD. Elec. light.

18/9/24

Total Capacity of Generators 5 Kilowatts

The amount of Fee ... £5 0 0

When applied for,

16 SEP 1924

Travelling Expenses (if any) £

0/6

When received,

See debit book.

J. S. Rankin

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

16 SEP 1924

Assigned

Elec. Light

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