

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

5 NOV 1924

Date of writing Report 20.10.1924 When handed in at Local Office 3.11.24 Port of GLASGOW.

No. in Survey held at PAISLEY.  
Reg. Book.Date, First Survey 26-9-24 Last Survey 14-10-1924  
(Number of Visits.....)

88986 on the S.S. "GRONANTROE."

Tons { Gross 1110 1110.93  
Net 639 639.16

Built at PAISLEY. By whom built MESSRS J. FULLERTON &amp; CO. Yard No. 272 When built 1924.

Owners MESSRS R. HUGHES &amp; CO. Port belonging to LIVERPOOL.

Electric Light Installation fitted by MR JAS. ESPER. Contract No. 272 When fitted 1924

## System of Distribution

Double wire System ✓

## Pressure of supply for Lighting

110 ✓

volts, Heating

volts, Power

volts.

## Direct or Alternating Current, Lighting

Direct current ✓

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

single Generator

, 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 S.S. Middle Platform.

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

none

and

—

, are the generators protected from mechanical injury and damage from water, steam or oil

Yes

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 Rm. close to dynamo.

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

in 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

are they constructed wholly of durable, incombustible non-absorbent materials

None

, 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

None

, proportion of omnibus

bars copper 3/4" x 1/2"

, 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

S.P. Main switch &amp; fuses. S.P. branch switches &amp; D.P. fuses.

Instruments on main switchboard

One

ammeters

One

voltmeters

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

Two earth testing 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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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.

*James Epic*

Electrical Engineers.

Date *22<sup>nd</sup> Oct. 1924*

#### COMPASSES.

Distance between electric generators or motors and standard compass *25 ft*

Distance between electric generators or motors and steering compass *100 ft*

The nearest cables to the compasses are as follows:—

A cable carrying *27* Ampères *5* feet from standard compass *100* feet from steering compass.

A cable carrying *27* Ampères *100* feet from standard compass *1* feet from steering compass.

A cable carrying *6* Ampères *25* feet from standard compass *5* 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 *all* course in the case of the standard compass, and *Nil.* degrees on *all* course in the case of the steering compass.

*John Fullerton*

Builder's Signature.

Date *27 Oct 1924.*

Is this installation a duplicate of a previous case *Yes.* If so, state name of vessel *Bag Rose.*

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.

*W.D.*  
*7/11/24*

Total Capacity of Generators *3.* Kilowatts

The amount of Fee ... £ *5. 0. 0.* : When applied for, *17.10.24*

Travelling Expenses (if any) £ : : When received, *31.10.24*  
*M.A.*

*J.S. Rankin.*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW* *4 NOV 1924*

Assigned

*Elec light*



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