

Rpt. 13.

No. 82387

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

28 FEB 1928

Date of writing Report

19

When handed in at Local Office

27/2/28

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at *Newcastle.*

Date, First Survey

13 Oct 1927

Last Survey

6 Feb 1928

1928

Reg. Book.

on the *S. S. Frontenac.*

(Number of Visits.....8....)

Tons

Gross

Net

Built at *Newcastle.*By whom built *Swan Hunter, Wigham Richardson*

Hull No. 1303

When built 1928

Owners

Port belonging to

Electric Light Installation fitted by *Swan Hunter, Wigham Richardson & Co.* Contract No. 1303. When fitted 1928.

System of Distribution

Double wire ✓

Pressure of supply for Lighting

110 ✓

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

no

, 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

— 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 room starboard side.

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

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

— and —

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

*Double pole**switch + fuses on dynamo mains.*

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

*Earth lamps**coupled to earth through switches & fuses*

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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Foundation

002071-002078-0077 1/2

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
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

Electrical Engineers.

Date 23rd Feb 1928

COMPASSES.

Distance between electric generators or motors and standard compass 270 feet

Distance between electric generators or motors and steering compass 265 feet

The nearest cables to the compasses are as follows:—

A cable carrying 1.2 Ampères on the ~~5 ft~~ standard compass 8 feet from steering compass.

A cable carrying .2 Ampères 8 feet from standard compass on the ~~5 ft~~ steering compass.

A cable carrying 8.5 Ampères 9 feet from standard compass 6 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.

FOR
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD

T. Cunningham

Builder's Signature.

Date 23. 2. 1928

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.)

The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation elec light wireless

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

W.T.
29/2/28

Total Capacity of Generators 10 Kilowatts

The amount of Fee ... £ 10 : — : When applied for, 9/21 19 28

Travelling Expenses (if any) £ : : When received, 15/21 19 28

W.T. Badger.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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