

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 11751

Date of writing Report

19

When handed in at Local Office 19. 11. 1923

Received at London Office

THU. 22 NOV. 1923

No. in
Reg. Book.

Survey held at Haverton Hill on Tues

Date, First Survey

while

Last Survey

building 19

on the Steel Screw Steamer "Eldon"

(Number of Visits.....)

Tons

Gross

Net

Built at Haverton Hill on Tues By whom built Furness Shipbuilding Co Ltd Yard No. 48

When built 1923

Owners Messrs Furness Withy & Co Ltd Port belonging to

Newcastle-on-Tyne

Electric Light Installation fitted by Furness Shipbuilding Co Ltd

Contract No.

When fitted 1923

System of Distribution

Double Wire Insulated ✓

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.

Level ✓

, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel

yes ✓

, is an adjustable regulating resistance fitted in

series with each shunt field

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

Starboard Side of Engine Room ✓

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 Engineers Store Starboard Side of Engine Room ✓

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

, is all insulation of high dielectric strength and of

permanently high insulation resistance

, 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

, 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 for Generator & each outgoing circuit

(Fuses Porcelain K.O. Pattern) ✓

Instruments on main switchboard

1 ✓

ammeters

1 ✓

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

series & middle point earthed, connected to each bus-bar by Switch & Fuse ✓

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

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

HEATERS *** **

[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.

THE FURNESS SHIPBUILDING CO. LIMITED

P. S. Glover

Electrical Engineers.

Date *15 Nov 23*

COMPASSES.

Distance between electric generators or motors and standard compass *160 feet*

Distance between electric generators or motors and steering compass *140 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *6* Amperes *3* feet from standard compass *feet* from steering compass.

A cable carrying *3* Amperes *inside* feet from standard compass *feet* from steering compass.

A cable carrying *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

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.

THE FURNESS SHIPBUILDING CO. LIMITED,

Am. Quenneville

Builder's Signature.

Date *15/11/1923*

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*)

in accordance with the Rules, is of good workmanship and materials throughout and has been tested under full working conditions and found satisfactory

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

Elec. Dept.

22/11/23.

Total Capacity of Generators *6* Kilowatts

The amount of Fee ... £ *6 : 0 : 0* When applied for, *19.11.1923*

Travelling Expenses (if any) £ *✓* : : When received, *See debit book*

Committee's Minute *FRI JAN. 4 1924*

Assigned

Elec Lt.

R. Fairley

Surveyor to Lloyd's Register of Shipping.

1m. 322.—Transfer.

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

TUE MAR 11 1924
FRI 23 MAY 1924



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