

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

SAT DEC 22 1923

Date of writing Report

When handed in at Local Office

21. 12. 1923

Port of

Middlesbrough

No. in  
Reg. Book.

Survey held at Haverton Hill-on-Tees Date, First Survey

1923

Last Survey

1923

on the Steel Screw Steamer

"Throckley"

Tons {  
Gross  
Net

built at Haverton Hill-on-Tees By whom built Furness Shipbuilding Co. Ltd. Yard No.

49

When built 1923

owners Messrs Furness Withy &amp; 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

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

Do they over compound 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

—

, 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

Starboard Side of Engine Room

Is the ventilation in way of the generators satisfactory

yes

, are they clear of all inflammable material

yes

Are they 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 axes of rotation fore and aft

yes

Are the bedplates and frames of the generating plant efficiently earthed

yes

are the prime movers and

in 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

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

yes

yes

, accessibility of all parts

yes

, absence of fuses on back of board

yes

, proportion of omnibus

yes

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 &amp; Fuses for Generator &amp; each outgoing circuit

Fuses Porcelain H. O. Pattern

Instruments on main switchboard

ammeters

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

A series of middle point earthed, connected to each Bus Bar by switch &amp; fuse

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

yes

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

yes



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Lloyd's Register  
Foundation







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.

F&F FURNESS SHIPBUILDING Co. LIMITED

P. S. Glover

Electrical Engineer.

Date 20th Dec 1923

#### COMPASSES.

Distance between electric generators or motors and standard compass

160 feet

Distance between electric generators or motors and steering compass

150 feet

The nearest cables to the compasses are as follows:—

A cable carrying .6 Ampères 3 feet from standard compass. — feet from steering compass.

A cable carrying .3 Ampères inside feet from standard compass. — feet from steering compass.

A cable carrying — Ampères — 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 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.

J. McGovern

Builder's Signature.

Date

Is this installation a duplicate of a previous case yes If so, state name of vessel S.S. "Eldon"

General Remarks (State quality of workmanship, opinions as to class, &c. This installation has been fitted in accordance with the Rules: is of good materials and workmanship and on completion was examined under full working conditions & found satisfactory

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

Elec. Light.

22/12/23.

Total Capacity of Generators 6 Kilowatts

The amount of Fee ... £ 6 : 0 : 0 When applied for, 20.12.19.23

Travelling Expenses (if any) £ ✓ : : See debit book.

Wm Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. DEC. 28 1923

Assigned

1m.3.22.—Transfer.  
(The Surveyors are requested not to write on or behind the space for Committee's Minute.)

FRI. JAN. 11 1924



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