

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

14 MAR 1928

Received at London Office

Date of writing Report

19

When handed in at Local Office

13/3/28

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at *Newcastle.*
Reg. Book. *Supt.*Date, First Survey *11 Oct. 1927* Last Survey *17 Jan'y 1928*(Number of Visits *1.2*)39998 on the *S.S. Beaversdale.*Tons { Gross *9990*Net *5813.*Built at *Newcastle.*By whom built *Armstrong Whitworth & Co. Ltd.* No. *1019* When built *1928*Owners *Canadian Pacific Railway Co.*Port belonging to *London*Electric Light Installation fitted by *Armstrong Whitworth & Co. Ltd.* Contract No. *1019* When fitted *1928.*

System of Distribution

Double wire

Pressure of supply for Lighting

110

volts, Heating

—

volts, Power

110

volts.

Direct or Alternating Current, Lighting

Direct

Power

Direct

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 in thrust recess

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

In 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

*—**—*

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

*fuses on each generator & on each outgoing circuit*Instruments on main switchboard *three* ammeters *three* 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**controlled by 3-way selector switch & 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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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office?

See attached Lighting & Power Diagrams
(See Plan (b))

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.

Armstrong Whitworth & Co. Electrical Engineers. Date 8/3/28.

COMPASSES.

Distance between electric generators or motors and standard compass 34 feet
Distance between electric generators or motors and steering compass 32 feet.
The nearest cables to the compasses are as follows:—
A cable carrying .5 Amperes on the feet from standard compass 8 feet from steering compass.
A cable carrying .5 Amperes 8 feet from standard compass on the feet from steering compass.
A cable carrying 12.3 Amperes 11 feet from standard compass 14 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.

SIR W. G. ARMSTRONG, WHITWORTH & CO. LTD.

Director

Builder's Signature. Date 8-3-1928

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 electric light, wireless

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

W.T. Badger 16/3/28

Total Capacity of Generators 150 Kilowatts

The amount of Fee £34 : : When applied for, 4/21/28
Travelling Expenses (if any) £ : : When received, 20/21/28

W.T. Badger
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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