

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WED. AUG. 30 1922

Date of writing Report

19

When handed in at Local Office

10

Port of **SUNDERLAND.**

No. in Survey held at

Sunderland

Date, First Survey

5th January

Last Survey

11th August 1922.

Reg. Book.

on the

S.S. "Castlemoor".

Tons

Gross

Net

Built at

Sunderland

By whom built

Wm. Doxford & Sons

Yard No.

562.

When built

1922.

Owners

Port belonging to

Electric Light Installation fitted by

Clarke Chapman & Co. Ltd.

Contract No.

When fitted

1922.

System of Distribution

Two wire system

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.

Yes

, 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

In Engine Room lower platform & 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

In Engine Room near dynamo. after bedplate

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

Yes

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

Yes. slate

, 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

One double pole linked switch fitted in switchboard for generator & single pole switch for each outgoing circuit fitted in switchboard

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**fitted in main switchboard**

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. Insulation etc.

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 Clarke, Chapman & Co., Ltd.

W. Morrison

Director.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 150 ft ✓

Distance between electric generators or motors and steering compass 144 " ✓

The nearest cables to the compasses are as follows:—

A cable carrying .56 Ampères 12 feet from standard compass 6 feet from steering compass. ✓

A cable carrying .56 Ampères 6 feet from standard compass 12 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.

WILLIAM DOXFORD & SONS, Limited.

H. Gallacher

Manager.

Builder's Signature.

Date

25/8/22.

Is this installation a duplicate of a previous case. Yes. If so, state name of vessel SS. Almor and SS. Blythmore.

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted in a satisfactory manner and in accordance with the rules and on completion was tried under working conditions and found satisfactory.

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

The light

1/9/22

Total Capacity of Generators 8.5 Kilowatts

The amount of Fee ... £ 8 :

When applied for,
15th Aug. 1922.

Travelling Expenses (if any) £ ✓ : - :

When received,
16th Aug. 1922.

G. H. H. H.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 3.22.—Transfer.
(The Surveyor is requested not to write on or below the space for Committee's Minute.)



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Foundation