

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 10-10-1924 When handed in at Local Office 10-10-1924 Port of *Leith*

No. in Survey held at *Burntisland* Date, First Survey 14-8-24 Last Survey 2-10-1924
Reg. Book. *S/S. "PENTIRION"* (Number of Visits.....)

S90264 on the

Built at *Burntisland* By whom built *Burntisland S. B. Co. Ltd* Yard No. 130 When built 1924
Tons { Gross 2473.84
Net 1493.61

Owners *The Pentirion Steamship Co. Ltd* Port belonging to *London*
Lambert Barnett & Co

Electric Light Installation fitted by *Moncrieffe Bros. Ltd. Methil* Contract No. - When fitted 1924
(Sole)

System of Distribution

Double wire system ✓

Pressure of supply for Lighting *110* ✓ volts, Heating - volts, Power - volts.

Direct ~~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 *No* ✓

are they over compounded 5 per cent. - , if not compound wound state distance between each generator -

Where more than one generator is fitted are they arranged to run in parallel *1 Generator*, is an adjustable regulating resistance fitted in

series with each shunt field *Shunt regulator*

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

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

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 *Same compartment*

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 *protected and Do.*

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 *1 Generator only,*

Single Pole switch 2 Pole fuses on 6 outgoing circuits, no equalizer switches

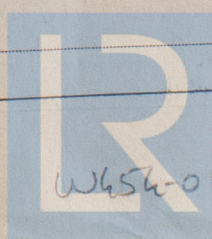
Instruments on main switchboard *1* ammeters *1* voltmeters *No* synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system *2 earth*

Lamps

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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Lloyd's Register
Foundation

W656-0102 (112)

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

[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.

M. J. B. 13th *Metcalfe & Burntisland* Electrical Engineers.

Date *9/10/24*

COMPASSES.

Distance between electric generators or motors and standard compass *82*

Distance between electric generators or motors and steering compass *78*

The nearest cables to the compasses are as follows:—

A cable carrying *2* Ampères *10* feet from standard compass *6* feet from steering compass.

A cable carrying *8* Ampères *14* feet from standard compass *8* 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.

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 *any* course in the case of the standard compass, and *Nil* degrees on *any* course in the case of the steering compass.

For THE BURNTISLAND SHIPBUILDING COMPANY LTD.

W. J. B. 13th

Builder's Signature.

Date *9th October 1924*

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *"Pentraeth"*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The installation has been well*

fitted & proved satisfactory on trial
It is recommended that a notation of electric light be inserted
in the Register Book.

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

Ans. J. W. D.
13/10/24.

Total Capacity of Generators *6* Kilowatts

The amount of Fee ... £ *6* : - : When applied for, *10-10-24.*

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

R. J. Easthope
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUES. 14 OCT 24*

Assigned

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