

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office... 13 JUL 1926

Date of writing Report 12-7-26 19 When handed in at Local Office 12-7-26 19 Port of *Leith*No. in Survey held at *Burntisland* Date, First Survey 20-5-26 Last Survey 2-6-26 19  
Reg. Book. " " (Number of Visits... 3)on the *S.S. "E WELL"* Tons { Gross 1334  
Net 730Built at *Burntisland* By whom built *Burntisland S.B. Co. Ltd.* Yard No. *N° 138* When built 1926Owners *James The Wanderer, Wimbeldon & Co. Ltd.* Port belonging to *London*Electric Light Installation fitted by *James Burntisland S.B. Co. Ltd.* Contract No. *138* When fitted 1926System of Distribution *Two wires* ✓Pressure of supply for Lighting *110* ✓ 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 —

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 Engine room underneath Accommodation*is the ventilation in way of the generators satisfactory *Yes* ✓, are they clear of all inflammable material *Yes* ✓

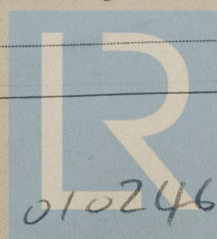
if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators —

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 *Bolted direct to Earth* ✓ are the prime movers and their respective generators in metallic contact *Yes* ✓Main Switch Boards, where placed *Beside Generator*

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 *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* ✓frame effectively earthed *Bolted direct to Earth* ✓ 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 —

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 *2 Earth lamp**method.*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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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 BURNTISLAND SHIPBUILDING CO., LTD.

*A. L. Hurre*

Electrical Engineers.

Date 10<sup>th</sup> July. 1926

#### COMPASSES.

Distance between electric generators or motors and standard compass 116'

Distance between electric generators or motors and steering compass 111'-6"

The nearest cables to the compasses are as follows:—

A cable carrying .5 Ampères .75 feet from standard compass 5'-0" feet from steering compass.

A cable carrying .5 Ampères 5'-0" feet from standard compass 1'-6" 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 any course in the case of the standard compass, and nil. degrees on any. course in the case of the steering compass.

THE BURNTISLAND SHIPBUILDING CO., LTD.

*A. L. Hurre*

Builder's Signature.

Date 10<sup>th</sup> July. 1926

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 installation has been

well fitted and the vessel towed to Newcastle-on-Tyne where the Electric Light will be tried under working conditions

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

*W.D.*  
16/7/26

Total Capacity of Generators Kilowatts

The amount of Fee ... £ 5 : 0 :  
Travelling Expenses (if any) £ : :  
When applied for, 22nd/6/26.  
When received, 9/8/26.

*A. L. Hurre*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*Elec. Light*