

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 12-7-1928 When handed in at Local Office 10 Port of *Dumfries* Received at London Office 11 AUG 1928

No. in Survey held at *Dumfries* Date, First Survey 25-5-28 Last Survey 6-7-1928  
Reg. Book. on the S.S. "WATFORD" *two visits 24 July - 13 August* (Number of Visits *6*)

Built at *Dumfries* By whom built *Calson S & E* Card No. 322 When built 1928  
Owners *Watts Watts & Co. Ltd* Port belonging to

Electric Light Installation fitted by *Calson Ship. & Eng. Co. Ltd* Contract No. 322 When fitted 1928

System of Distribution *Two 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 —, 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 *Engine Room, Starboard Ford.*  
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, Starboard on Engineers' Store Bulkhead.*  
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*, 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 D.P. switch and D.P. fuses on Dynamo mains, and one S.P. Switch and D.P. fuses on each outgoing circuit*

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 *Lamp Testing Set*

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*

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 CALEDON SHIPBUILDING & ENGINEERING CO. LTD

*Wm. Gillanders*

Electrical Engineers.

Date 11.7.28

COMPASSES.

Distance between electric generators or motors and standard compass 65 feet

Distance between electric generators or motors and steering compass 65 feet

The nearest cables to the compasses are as follows:—

A cable carrying .25 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .25 Ampères 12 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. No

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

THE CALEDON SHIPBUILDING & ENGINEERING CO. LTD

*Wm. Gillanders*

Builder's Signature.

Date 11.7.28

GENERAL MANAGER, SHIPBUILDING DEPT

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.)

This installation has been fitted on board in an efficient manner & in accordance with the Rules. The materials & workmanship are of good description. The vessel has proceeded to the Lyne to be completed. To complete the Survey the following remains to be done. Installation to be examined under working conditions. The Newcastle Surveyors have been notified.

The installation completed & found satisfactory under working conditions.

It is submitted that this vessel is eligible for THE RECORD. See Light D.K. 20/8/28

Total Capacity of Generators 18 Kilowatts

The amount of Fee ... £ 13 : 0 : When applied for, 12.7.19.28

Travelling Expenses (if any) £ : : When received, 17.8.19.28

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

Committee's Minute

Assigned

1m. 3.21.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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