

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

MON. JUN. 30 1924

Date of writing Report 27th June 1924 When handed in at Local Office 28th June 1924 Port of Aberdeen
 No. in Survey held at Aberdeen Date, First Survey May 22nd Last Survey May 18th 1924
 Reg. Book. S.S. GLEN DERRY Tons { Gross
 on the S.S. GLEN DERRY Net
 Built at Aberdeen By whom built A. Hall & Co Ltd Yard No. 591 When built 1924
 Owners John Cook & Son Ltd. Port belonging to Aberdeen
 Electric Light Installation fitted by James Thomson Aberdeen Contract No. When fitted 1924

System of Distribution Double wiring distribution board 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. ✓, 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 on starting platform in engine room 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 3 ft. Horizontal and none Vertical 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 near Dynamo
 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 Yes
 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 ✓
 frame effectively earthed Yes Are the following fittings as per Rule, viz.:— spacing or shielding of live parts Yes
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 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 a lamp connected to earth on each pole.

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

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.

James Thomson

Electrical Engineers.

Date *25.6.1924*

COMPASSES.

Distance between electric generators or motors and standard compass *about 40 feet*

Distance between electric generators or motors and steering compass *" 36 "*

The nearest cables to the compasses are as follows:—

A cable carrying *5* Amperes *10* feet from standard compass *6* feet from steering compass.

A cable carrying *8* Amperes *16* feet from standard compass *12* feet from steering compass.

A cable carrying *15* Amperes *Compass light* feet from standard compass *Compass light* 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.

FOR ALEXANDER HALL & CO., LTD.

R. G. M. D.

SECRETARY.

Builder's Signature.

Date *24.6.1924*

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 various parts of the installation were examined during the fitting on board. The Materials, and Workmanship are good, and on completion the light was tried at full power, and everything found satisfactory.

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

C. E. Wilkes
2/7/24

Total Capacity of Generators *3½* Kilowatts

The amount of Fee ... £ *3 : 10* : *27.6.1924*

Travelling Expenses (if any) : £ *✓* : *See debit book.*

C. E. Wilkes
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI 4 JUL 1924*

Assigned *Elec Lt*

Im 322—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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