

Rpt. 13.

No. 29327

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

16 DEC 1926

Date of writing Report 19 When handed in at Local Office 15 DEC 1926 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Sunderland. Date, First Survey 17 Nov. 22 Last Survey Dec 2 1926
Reg. Book. (Number of Visits.....)

on the S.S. USWORTH.

Built at Sunderland. By whom built John Blummers & Co. Yard No. 257 Tons { Gross 3535
Net 2139
When built 1926

Owners J. & J. H. H. & Co. Port belonging to Newcastle.

Electric Light Installation fitted by Falconer Bros & Co. Contract No. 257 When fitted 1926.

System of Distribution Double wire

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 rating? 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, clearly marked, and furnished with sockets? Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched? Yes Are the lubricating arrangements of the generators as per Rule? Yes

Position of Generators Engine room starboard

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 axes of rotation fore and aft? Yes

Earthing, are the bed-plates 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 on after 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, non-ignitable 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 insulated from the slab

with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework? Yes and is the frame effectively earthed? Yes Are the fittings as per Rule regarding: — 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 Double pole

switch & fuses on dynamo mains. Single pole switch & double pole fuses on each outgoing circuit.

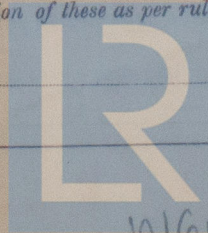
Instruments on main switchboard one ammeters one voltmeters — synchronising device for paralleling purposes.

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

Coupled to earth through switches & fuses.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules? Yes

Joint Boxes 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

W605 0104

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 FALCONAR, CROSS & Co. LTD. Electrical Engineers.

Date 25th 30th 1926

COMPASSES.

Distance between electric generators or motors and standard compass 95 feet

Distance between electric generators or motors and steering compass 105 feet

The nearest cables to the compasses are as follows:—

A cable carrying .3 Ampères on the feet from standard compass 8 feet from steering compass.

A cable carrying .3 Ampères 8 feet from standard compass on the feet from steering compass.

A cable carrying 7 Ampères 9 feet from standard compass 11 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.

For JOHN BLUMER & CO. LTD.

J. Edwards Secretary

Builder's Signature.

Date 14/12/26.

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 built under Special Survey & the materials & workmanship are good. After being fitted in the vessel it was tried under full working conditions with satisfactory results. The vessel is in my opinion eligible to have the note Elec light marked in the Register Book.

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

Elec. Light.

D.A. 17/12/26.

Total Capacity of Generators 7.5 Kilowatts.

The amount of Fee ... £ 8-0-0 { When applied for, 25 Nov 1926
When received, 30 Nov 1926
Travelling Expenses (if any) £ : : }

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Light



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