

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

7 MAR 1928

Date of writing Report 23.2.28 when handed in at Local Office 3.3.1928 Port of GLASGOW

No. in Survey held at CLYDEBANK. Date, First Survey 1.12.27 Last Survey 22.2.1928
Reg. Book. 42311. on the S.S. PRINCESS ELAINE. (Number of Visits.....6.....)

Built at CLYDEBANK. By whom built MESSRS J. BROWN & CO. Yard No. 620 When built 1928
Owners MESSRS THE CANADIAN PACIFIC S.S. CO. Port belonging to

Electric Light Installation fitted by MESSRS JOHN. BROWN & CO. LTD Contract No. 620 When fitted 1928

System of Distribution TWO WIRE INSULATED ✓

Pressure of supply for Lighting 110 ✓ volts, Heating 110 ✓ 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 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 NO ✓, is an adjustable regulating resistance fitted in series with each shunt field YES ✓

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 aft end port & 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 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 aft Bulkhead Starboard Side.
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 _____, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite 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

GENERATORS: D.P. SWITCHES & FUSES OUTGOING CIRCUITS: S.P. SWITCHES & D.P. FUSES

Instruments on main switchboard 2 ammeters 2 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 TWO LAMPS IN SERIES WITH WIRE BETWEEN LAMPS CONNECTED TO EARTH.

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



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.

John Brown & Company, Limited

Electrical Engineers.

Date 28/2/28

M. Henderson
 Divisional Secretary

COMPASSES.

Distance between electric generators or motors and standard compass 30 FT FROM WIRELESS MACHINE

Distance between electric generators or motors and steering compass 40 FT

The nearest cables to the compasses are as follows:—

A cable carrying 60 Ampères 8 feet from standard compass 8 feet from steering compass.

A cable carrying 1 Ampères 1 feet from standard compass 1 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 course in the case of the standard compass, and NIL degrees on course in the case of the steering compass.

John Brown & Company, Limited

Builder's Signature.

Date 28/2/28

M. Henderson
 Divisional Secretary

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 under special survey.
 Tested under full working conditions and found satisfactory.
 The materials & workmanship were found to be good and sound.

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

J. S. Rankin
 28/2/28

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 28.10.0

When applied for, 1/3/28

Travelling Expenses (if any) £

When received, 6.3.28

J. S. Rankin
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 6-MAR 1928

Assigned

Elec. Light



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Lloyd's Register Foundation

A.B.
 3/3/28

Impressions are requested not to write on or below the space for Committee's Minute.