

7 DEC 1927

Rpt. 13.

No. 47351

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 7 DEC 1927

Date of writing Report 18.11.1927 When handed in at Local Office 5.12.1927 Port of GLASGOW.

No. in Survey held at GREENOCK. Date, First Survey 21.9.27 Last Survey 24.11.27 19
Reg. Book. (Number of Visits 9)

12246 on the M. V. PACIFIC ENTERPRISE.

Tons { Gross 6717
Net

Built at GLASGOW. By whom built MESSRS THE BLYTHSWOOD YARD No. 15 When built 1927.

Owners THE NORFOLK & N. AMERICA S.S. CO. LTD. Port belonging to LONDON.

Electric Light Installation fitted by THE SUNDERLAND FORGE & ENG CO Contract No. 135 When fitted 1927.

System of Distribution DOUBLE WIRE
Pressure of supply for Lighting 220 volts, Heating 220 volts, Power 220 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 YES, 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 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

and, are the generators protected from mechanical injury and damage from water, steam or oil

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 IN ENGINE ROOM AT AFT 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

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

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

EACH GEN. T.P. O/L.R.C. CIRCUIT BREAKER 3RD POLE ACTS AS EQUALISER. EACH CIRCUIT EITHER DOUBLE POLE SWITCHES & FUSES OR DOUBLE POLE O/L CIRCUIT BREAKERS.

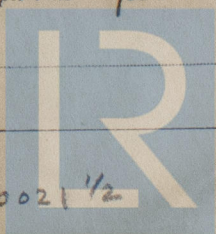
Instruments on main switchboard 4 ammeters 3 voltmeters — synchronising device for paralleling purposes.

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

EACH LAMP SWITCH & FUSE ON EACH POLE.

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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W1027-0021 1/2

021 2/2

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.

p.pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.,

Y. Thompson

Electrical Engineers.

Date 22.11.27.

COMPASSES.

Distance between electric generators or motors and standard compass

130 feet

Distance between electric generators or motors and steering compass

180 feet

The nearest cables to the compasses are as follows:—

A cable carrying *4.46* Ampères *6* feet from standard compass *3* feet from steering compass.

A cable carrying *0.2* Ampères *2* feet from standard compass *2* 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.

BLYTHSWOOD SHIPBUILDING CO., LTD.,

SECRETARY.

Builder's Signature.

Date 29/11/27.

Is this installation a duplicate of a previous case *Yes*.

If so, state name of vessel

M.V. Pacific Reliance

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 workmanship was found to be good and sound and the materials satisfactory.

Total Capacity of Generators *495* Kilowatts.

The amount of Fee ...

£ *13.17.6*

When applied for,

6/12/27

Travelling Expenses (if any) £

1.1.0

When received,

10.12.27

Committee's Minute

GLASGOW 6 - DEC 1927

Assigned

Elec. Right

Surveyor to Lloyd's Register of Shipping.

J. Rankin



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