

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 9-2- 1938 When handed in at Local Office 10-2- 1938 Port of Leith

No. in Survey held at Burntislands Date, First Survey 6-1-38 Last Survey 4-2- 1938
 Reg. Book. on the S.S. "NORMAN QUEEN." (Number of Visits...6)

Built at Burntislands By whom built Burntislands S. S. Co. Ltd. Yard No. 216 When built 1938
 Owners British Channel Islands S. S. Co. Ltd. Port belonging to London
 Electric Light Installation fitted by Burntislands S. S. Co. Ltd. Contract No. 216 When fitted 1938
 Is the Vessel fitted for carrying Petroleum in bulk No.

Tons { Gross 956.62
 Net 540.65

System of Distribution TWO WIRE LEAD & RETURN. ✓

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 temperature rise 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 _____ Have certificates of test results for machines under 100 kw. been submitted and approved YES ✓ Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing _____

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 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 YES ✓, are their axes of rotation fore and aft YES ✓

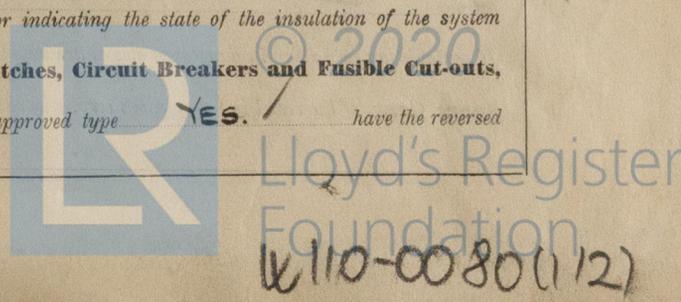
Earthing, are the bedplates and frames of the generating plant efficiently earthed YES ✓ are the prime movers and their respective generators in metallic contact YES ✓ **Main Switch Board**, where placed ENGINE ROOM STARBOARD SIDE. ✓

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 YES ✓, is it of an approved type YES ✓, 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 ✓, is the non-hygroscopic insulating material of an approved type 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 ✓, temperature rise of omnibus bars YES ✓, individual fuses to voltmeter, pilot or earth lamp YES ✓, are moving parts of switches alive in the "off" position NO ✓ are all screws and nuts securing connections effectively locked YES ✓ are any fuses fitted on the live side of switches NO ✓ **Main Switchgear**, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches DOUBLE POLE MAIN SWITCH 50 AMP CAPACITY AND SINGLE POLE SWITCHES ON OUTGOING CIRCUITS. ✓

Are turbine driven generators fitted with emergency trip switch as per rule _____ Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material YES ✓ **Instruments** on main switchboard ONE ✓ ammeter ONE ✓ voltmeter _____ synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection _____

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system EARTH LAMPS. ✓ **Switches, Circuit Breakers and Fusible Cut-outs**, do these comply with the requirements of the Rules YES ✓ are the fusible cutouts of an approved type YES ✓ have the reversed _____



All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

FOR THE BURNTISLAND SHIPBUILDING CO., LTD.

W. J. D. G. L.
CHAIRMAN AND MANAGING DIRECTOR

Electrical Engineers.

Date 9th February, 1938.

COMPASSES.

Distance between electric generators or motors and standard compass 140'-0" /

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 36 / Ampères 7" / ~~ft~~ from standard compass 7" / feet from steering compass.

A cable carrying Ampères feet from standard compass 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 / degrees on / course in the case of the steering compass.

FOR THE BURNTISLAND SHIPBUILDING CO., LTD.

W. J. D. G. L.
CHAIRMAN AND MANAGING DIRECTOR

Builder's Signature.

Date 9th February, 1938.

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, etc. This installation has been efficiently fitted on board in accordance with the rules. The materials and workmanship are sound and good, and the installation was found satisfactory under full load and working conditions. /

Noted.

Chick
11-2-38

Total Capacity of Generators 4 Kilowatts.

The amount of Fee ... £ 4 : 0 : 0 When applied for, 10-2-1938.

Travelling Expenses (if any) £ : ✓ : 19/2 1938

J. J. Campbell
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 18 FEB 1938

Assigned Su J.C. report

2m 5.54. - Transfer. The Surveyors are requested not to write on or below the space for Committee's Minute.



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