

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

10 OCT 1928

Received at London Office

Date of writing Report

10

When handed in at Local Office

10

Port of

Belfast

No. in Survey held at

Belfast

Date, First Survey

See first entry report

Last Survey

19

Reg. Book.

(Number of Visits.....)

73228 on the STEEL TWIN SC HIGHLAND MONARCH

Tons { Gross 14450
Net

Built at Belfast

By whom built Harland & Wolff Ltd

Yard No. 751

When built 1928

Owners Nelson Stevedoring Co. Ltd. (Nelson Stevedoring Co. Ltd.)

Port belonging to Belfast

Electric Light Installation fitted by

Harland & Wolff Ltd.

Contract No. 751

When fitted 1928

System of Distribution Two wire Direct Current to Distributing Boxes

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 overload 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 and clearly marked yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited yes

Position of Generators Main Generators in Motor Room Port & Starboard Emergency Generators in House on Boat Deck

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 yes, 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 On Switchboard Platform Fore End of Motor Room

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, incombustible non-absorbent materials yes, is all insulation of high dielectric strength and of permanently high insulation resistance yes

insulated from the slab with mica or micanite and the slab similarly insulated from its framework and is the frame effectively earthed yes

Are the following fittings as per Rule, viz.:— 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 D.P. overload circuit

Breaker with Reverse Current, time limits & interlocked Equalizer Switch for each Generator.

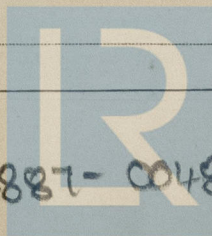
D.P. overload circuit Breaker or D.P. Switch + Fuses for each outgoing circuit

Instruments on main switchboard 7 ammeters 2 voltmeters arranged 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.

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

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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.

Electrical Engineers.

Date 3 Oct 1928

COMPASSES.

Distance between electric generators or motors and standard compass 160 FT. to Generator, 22 FT. to heaviest motor

Distance between electric generators or motors and steering compass 156 FT to Generator, 18 FT to heaviest motor

The nearest cables to the compasses are as follows:—

A cable carrying 39 Ampères 16 feet from standard compass 14 feet from steering compass.

A cable carrying 32 Ampères 16 feet from standard compass 14 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 all course in the case of the standard compass, and nil degrees on all course in the case of the steering compass.

Builder's Signature.

Date

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 work has been done under special Survey. The materials and workmanship are sound and good. The installation has been tried out under full working conditions with satisfactory results. In my opinion the vessel is eligible for notation "Electric Light"

Elec. Light

R. M. 11/10/28

Total Capacity of Generators 900 Kilowatts

The amount of Fee ... £ 54: -

When applied for,

8th Oct 1928

Travelling Expenses (if any): £

When received,

12.10.28

R. Lee Amies

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 16 OCT 1928

Assigned

Elec. Light



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