

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 20 MAR 1930

Date of writing Report 19th March, 1930 When handed in at Local Office 19th March, 1930. Port of Swansea.

No. in Survey held at Swansea. Date, First Survey 27th February Last Survey 13th March, 1930.
Reg. Book. (Number of Visits... 5...)

08525 on the S.T. Lincolade. Tons Gross 290 Net 127

Built at Beverly By whom built Cook, Helton & Gennell Yard No. When built Sep. 1919

Owners Rhondda Fishing Co. Port belonging to Swansea

Electric Light Installation fitted by The Hunter Electrical Engineering Co. Contract No. When fitted March 1930

System of Distribution Two Wire

Pressure of supply for Lighting 100 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 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 , 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! Are the lubricating arrangements of the generators as per Rule Yes!

Position of Generators Starboard side Engine Room

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 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 Direct coupled!

Main Switch Boards, where placed 1st of Generator in Engine 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 Yes! 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! , if semi-insulating material is used, are all conducting parts connected to one pole

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. Ironclad Switch for Dynamo outgoing circuits controlled by SP

Knife Switch by D.P. Fuses

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 Lamp Two Switches

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!

[illegible]

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 THE HUNTER ELECTRICAL ENGINEERING CO.

W. S. Shaw

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

70 Feet

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying *2* Amperes *5* feet from standard compass feet from steering compass.

A cable carrying *2* Amperes *5* feet from standard compass feet from steering compass.

A cable carrying Amperes 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.

A. Martin *Adjusters*

Builder's Signature.

Date

Is this installation a duplicate of a previous case

Yes

If so, state name of vessel

S.K. "Harlech Castle"

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Materials and workmanship are good.

This installation has been fitted on board in a satisfactory manner in accordance with the Rules: it has been tried under full working conditions found efficient.

The vessel is eligible in my opinion for notation of Electric Light in the Register Book.

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

(S)

4/4/30

Total Capacity of Generators *3 1/2* Kilowatts

The amount of Fee ...

£ *3* : *0*

When applied for,

19/11/30

Travelling Expenses (if any) £

When received,

2/5/30

Hannish W. Hutton

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt.