

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

MAY - 1 1941

Received at London Office.....

Date of writing Report 24<sup>th</sup> April 1941 When handed in at Local Office 29: 4: 41 Port of GlasgowNo. in Survey held at Glasgow Date, First Survey 12: 3: 41 Last Survey 24<sup>th</sup> April 1941  
Reg. Book. (Number of Visits.....7)88046 on the S.S. "EMPIRE ZEPHYR" Tons { Gross 6327  
Net 4592Built at Glasgow By whom built C. Connell & Co Ltd Yard No. 432 When built 1941Owners His Majesty represented by The Minister of Shipping Port belonging to GlasgowElectrical Installation fitted by H. T. Robertson & Co Contract No. 432 When fitted 1941Is vessel fitted for carrying Petroleum in bulk - Is vessel equipped with D.F. fu E.S.D. - Gy.C. - Sub.Sig. -Have plans been submitted and approved fu System of Distribution fu wire Voltage of supply for Lighting 110Heating - Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency - Prime Movers, -has the governing been tested and found efficient when the whole load is suddenly thrown on and off fu Are turbine emergency governors fitted with atrip switch as per Rule - Generators, are they compound wound fu, are they level compounded under working conditions fu,if not compound wound state distance between generators - and from switchboard - Where more than one generator is fitted are theyarranged to run in parallel fu, are shunt field regulators provided fu Is the compound winding connected to the negative or positive polenegative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates oftest for machines under 100 kw. been supplied fu and the results found as per rule fu Are the lubricating arrangements and the constructionof the generators as per rule fu Position of Generators fu engine room-, is the ventilation in way of generators satisfactory fu are they clear of inflammable material fu, if situatednear unprotected combustible material state distance from same horizontally - and vertically -, are the generators protected from mechanicalinjury and damage from water, steam and oil fu, are the bedplates and frames earthed fu and the prime movers and generators in metalliccontact fu Switchboards, where are main switchboards placed fu near generatorsare they in accessible positions, free from inflammable gases and acid fumes fu, are they protected from mechanical injury and damage from water, steamand oil fu, if situated near unprotected combustible material state distance from same horizontally - and vertically -, what insulationmaterial is used for the panels fu Indanite, if of synthetic insulating material is it an Approved Type fu if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the frame effectually earthed fuIs the construction as per Rule fu, including accessibility of parts fu, absence of fuses on the back of the board fu, individual fusesto pilot and earth lamps, voltmeters, etc., fu looking of screws and nuts fu, labelling of apparatus and fuses fu, fuses on the "dead"side of switches fu Description of Main Switchgear for each generator and arrangement of equaliser switches -D.P. Switch and fusesand for each outgoing circuit - D.P. Switch and D.P. fusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 2ammeters 2 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection - Earth Testing, state means provided fu earth lamps

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Lloyd's Register  
Foundation







The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.  
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.  
The foregoing is a correct description.

*H. J. Robertson & Co*

Electrical Engineers.

Date *28<sup>th</sup> April 41*

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

*45 feet*

Minimum distance between electric generators or motors and steering compass.....

*35 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *.18* Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *5* Ampères *8* feet from standard compass *6* 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.....

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted.....

The maximum deviation due to electric currents was found to be *nil* degrees on *anf.* course in the case of the standard compass, and *nil* degrees on *anf.* course in the case of the steering compass.

FOR CHARLES CONNELL & CO., Limited

*D. M. Carey*

Builder's Signature.

Date *28 April 1941*

SECRETARY

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

If so, state name of vessel

*S.S. "EMPIRE SNOW."*

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

*The electrical equipment of this vessel has been fitted on board under special survey, tested under full working conditions and found satisfactory. The material and workmanship are good. All the requirements of the approved plans and M.O.S. specification have been carried out.*

*Noted.*

*29/4/41*

Total Capacity of Generators *25* Kilowatts.

The amount of Fee.....

*£ 20 :-*

M.O.S. specification *£ 5 :-*

Travelling Expenses (if any) *£*

When applied for,

*29 APR. 1941*

When received,

*19*

Committee's Minute

*GLASGOW*

*29 APR 1941*

SEE ACCOMPANYING MACHINERY REPORT.

Assigned

*S. G. Fiddell*

Surveyor to Lloyd's Register of Shipping.