

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 17th December 1940 When handed in at Local Office 18th December 1940 Port of GlasgowNo. in Survey held at Port Glasgow & Greenock Date, First Survey 20. 10. 40 Last Survey 18th December 1940
Reg. Book. 87963 on the S.S. EMPIRE FROST

Built at Port Glasgow By whom built Lithgows Ltd. Yard No. 939 When built 1940

Owners Ministry of Shipping Port belonging to Greenock
Electrical Installation fitted by Sunderland Forge & Eng. Co Ltd. Contract No. 939 When fitted 1940

Is vessel fitted for carrying Petroleum in bulk Is vessel equipped with D.F. Yes E.S.D. - Gy.C. - Sub.Sig. -

Have plans been submitted and approved Yes System of Distribution fan wire Voltage of supply for Lighting 110

Heating - Power 110 Direct or Alternating Current, Lighting DC Power DC 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 Yes Are turbine emergency governors fitted with a

trip switch as per Rule - Generators, are they compound wound Yes, are they level compounded under working conditions Yes

if not compound wound state distance between generators - and from switchboard - Where more than one generator is fitted are they

arranged to run in parallel No, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole

Positive Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates of

test for machines under 100 kw. been supplied Yes and the results found as per rule Yes Are the lubricating arrangements and the construction

of the generators as per rule Yes Position of Generators in engine room

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, if situated

near unprotected combustible material state distance from same horizontally - and vertically - are the generators protected from mechanical

injury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metallic

contact Yes Switchboards, where are main switchboards placed near generator

are they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam

and oil Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically - what insulation

material is used for the panels Sindanfo. if of synthetic insulating material is it an Approved Type Yes, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the frame effectually earthed Yes

Is the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fuses

to pilot and earth lamps, voltmeters, etc. Yes, locking of screws and nuts Yes, labelling of apparatus and fuses Yes, fuses on the "dead"

side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches

D.P. Switch and fuses

and for each outgoing circuit D.P. Co. Switch and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 2

ammeters 2 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection - Earth Testing, state means provided earth lamps

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PARTICULARS OF GENERATING PLANT.

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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.

P.Pro. *J. B. Shank*
THE SUMMERLAND FORCE & ENGINEERING CO. LTD.

Electrical Engineers.

Date *30th December 1940.*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *40 feet*

Minimum distance between electric generators or motors and steering compass *36 "*

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 *8* Ampères *6* 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 *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 *anf.* course in the case of the standard compass, and *nil* degrees on *anf.* course in the case of the steering compass.

LITHGOW'S LIMITED.

John M. Fuller Secretary

Builder's Signature.

Date *31/12/40.*

Is this installation a duplicate of a previous case If so, state name of vessel

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 materials and workmanship are good. All the requirements of the approved plans and Ministry of Shipping Specification have been carried out.

Noted
L.F.
28/1/41.

Rob
4/1/41

Total Capacity of Generators *25* Kilowatts.

The amount of Fee ... £ *20:-* : When applied for, *at 5/-*
M.O.S. Specification £ *5:-* :
Travelling Expenses (if any) £ *10/2* : When received, *20-1-1941*

J. G. Findlay

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 21 JAN 1941

Assigned

See Gen. F. C. report 21218



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