

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

6 FEB 1946

Received at London Office.....

Date of writing Report... 29. 12. 45 When handed in at Local Office... 19..... Port of... Liverpool

No. in Survey held at... Lytham & Preston Date, First Survey... 7/12/45 Last Survey... 18/12/45

Reg. Book. s.s. 'FRESHPOND.' (Number of Visits... 3)

on the... s.s. 'FRESHPOND.' Tons {Gross... 282.91  
Net... 92.82

Built at... Lytham By whom built... Lytham S.B. & Eng. Co. Ltd. Yard No. 877 When built... 1945

Owners... The Admiralty Port belonging to... London

Electrical Installation fitted by... Lytham S.B. & Eng. Co. Ltd. Contract No. 877 When fitted... 1945

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No

Have plans been submitted and approved... Yes System of Distribution... Two wires Voltage of supply for Lighting... 110

Heating... Power... Direct or Alternating Current, Lighting... AC Power... 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... are shunt field regulators provided... Yes Is the compound winding connected to the negative or positive pole

negative 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... In Engine Room adjacent to Generators.

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... Suitable fire, etc. mounted on base of  
nickelite-insulated base. Switchboard  
to Admiralty requirements. 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... Double-pole switch  
& fuses

and for each outgoing circuit... Double pole switch and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Yes Instruments on main switchboard... 1

ammeters... 1 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.



PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	1	10	110	91	500	Steam Engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

[illegible][illegible]



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.

THE LYTHAM SHIPBUILDING and  
ENGINEERING COMPANY, LIMITED  
R. Friedenthal

Electrical Engineers.

Date 5-1-46

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 35 ft.

Minimum distance between electric generators or motors and steering compass 30 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 20 Amperes 6 feet from standard compass 6 feet from steering compass.

A cable carrying 20 Amperes 4 feet from standard compass 6 feet from steering compass.

A cable carrying 5.5 Amperes 8 feet from standard compass 10 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 1/2 degrees on any course in the case of the standard compass, and 1/2 degrees on any course in the case of the steering compass.

THE LYTHAM SHIPBUILDING and

ENGINEERING COMPANY, LIMITED

Builder's Signature.

Date 5-1-46

Is this installation a duplicate of a previous case? Yes. (except the D.G. filter) If so, state name of vessel SS. FRESH TERN

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 installed under special survey, in accordance with the approved plans & specifications. On completion the installation was tested under full working conditions and found satisfactory. The materials and workmanship are good.

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 20 : 0 : 0 When applied for 31 JAN 1946  
Travelling Expenses (if any) £ 1 : 4/3 When received

L. Hoffman  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Transmit to London.

Suf. E. machy. rpt.

FRI. 22 FEB 1946

LIVERPOOL - 5 FEB 1946