

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

24 NOV 1943

Date of writing Report... 29. 10. 43 When handed in at Local Office... 19 Port of Liverpool

No. in Survey held at Lydham & Preston Date, First Survey 7. 6. 43 Last Survey 28. 10. 1943
 Reg. Book. s.s. "FRESHWELL." (Number of Visits... 5)

on the s.s. "FRESHWELL." Tons { Gross 283
 Net.....

Built at Lydham By whom built Lydham S.B. & Co. Ltd. Yard No. 873 When built 1943

Owners The Admiralty Port belonging to London

Electrical Installation fitted by Lydham S.B. & Co. Ltd. Contract No. 873 When fitted 1943

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 wire Voltage of supply for Lighting 110

Heating..... Power..... Direct or Alternating Current, Lighting D.C. Power..... If Alternating Current state periodicity..... Prime Movers,

has the governing been tested and found as per Rule when full 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 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 Switcheles, fuses, etc. mounted on mica or bakelite insulated bars & suitably supported, if of synthetic insulating material is it an Approved Type....., 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

and 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 one

ammeter one 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 Cord lamps

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled as

per Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested....., are the reversed current

protection devices connected on the pole opposite to the equaliser connection....., have they been tested under working conditions, and at what current

did they operate..... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Admiralty Pattern

Cables, are they insulated and protected as per the appropriate Tables of the Rules Yes, if otherwise than as per Rule are they of an approved type.....

state maximum fall of pressure between bus bars and any point under maximum load 3.1.1/64 Are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends.....

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

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		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1 ✓	10 ✓	110 ✓	91 ✓	500	Steam Engine.		
EMERGENCY								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	10	1	9/1093	91	118✓	30	Rubber	Lead Covered.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

WIRELESS	1	7/029	10	15	20	Rubber	L.C.
NAVIGATION LIGHTS	1	7/029	5.5	15	100	"	"
LIGHTING AND HEATING ENGINE ROOM.	1	7/029	7.5	15	160	"	R.C. in Cordant
NAVIGATION AND SIGNALLING FORWARD.	1	7/064	28	46	40	"	L.C.
DG. SUPPLY CABLES.	1	7/064	36	5	170	"	"
MASTHEAD LIGHT.	1	7/064	36	5	30	"	R.C. in Cordant.
BOW LIGHTS.	1	7/044	20	3	10	"	L.C.
COMPASS LIGHTS.	1	7/029	5.5	15	20	"	"
BOILER ROOM AND MIDSHIPS.							

[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

ENGINEERING COMPANY LIMITED

Electrical Engineers.

Date 3-11-43

R. Friedenthal

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 Ampères 4 feet from standard compass 6 feet from steering compass.

A cable carrying 20 Ampères 4 feet from standard compass 4 feet from steering compass.

A cable carrying 5.5 Ampères 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

ENGINEERING COMPANY LIMITED

Builder's Signature.

Date 3-11-43

R. Friedenthal

Is this installation a duplicate of a previous case Yes. If so, state name of vessel S.S. FRESHPOOL

Plans. Are approved plans forwarded herewith No. If not, state date of approval 10.12.42.

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Yes

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 and in accordance with the Rules and specification. The installation has been tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted
J.F.
25/11/43

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 10 : 0 : 0 When applied for, 27 NOV 1943

Travelling Expenses (if any) £ 1 : 18 : 0 When received, 19

Committee's Minute LIVERPOOL 23 NOV 1943

Assigned Transmit to London

H. Magnus, & J.A. Lindley
Surveyors to Lloyd's Register of Shipping.

5m. 4.38.—Transfer. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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