

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 JUL 1941

Have plans been submitted and approved Yes System of Distribution Star Voltage of supply for Lighting 110
Heating Power Direct or Alternating Current, Lighting 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 Yes, 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 Engine room starboard side
Yes, 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 Engine room starboard side
Yes 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 Alumina Sintering, 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
on 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
quick break knife switches and double pole fuses
and for each outgoing circuit Single pole quick break changeover knife switches
and double pole fuses
are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes 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 connected to each via switches and fuses
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 Yes
ables, 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 long run
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				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	2	125	110	113	850	Single cyl. vertical steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Poles.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rate.			
MAIN GENERATOR	12.5	1	18/083	113	118	1.1.2	40'	Galv. steel conduit
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

LIGHTING AND HEATING, ETC.									
WIRELESS	1	7/066	12.5	26	✓	200'	V.I.R	in steel conduit	
NAVIGATION LIGHTS	1	7/066	5	26	✓	220'	V.I.R	" " "	
LIGHTING AND HEATING									
Incubators and oil	1	7/066	26	31	✓	100'	V.I.R	" " "	
Burner and flue	1	19/062	22	68	✓	200'	V.I.R	" " "	
Boiler and water room	1	7/066	12.5	28	✓	40'	V.I.R	" " "	
Oil accumulation	1	7/066	12.5	46	✓	420'	V.I.R	" " "	
Flue	1	7/066	5	31	✓	240'	V.I.R	" " "	

MOTOR CABLES.

[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

For Clarke, Chapman & Co., Ltd.

W. Taylor

Director

Electrical Engineers.

Date 26. 6. 41

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying .18 Ampères ^{main} feet from standard compass feet from steering compass.

A cable carrying .18 Ampères ^{main} feet from standard compass 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 ^{1 1/2} degrees on ^{any} course in the case of the

standard compass, and ^{1 1/2} degrees on ^{any} course in the case of the steering compass.

SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

G. J. Dureddy

Builder's Signature.

Date 28 June 1941

Is this installation a duplicate of a previous case ^{no} If so, state name of vessel

Plans. Are approved plans forwarded herewith ^{no} If not, state date of approval 11-11-40

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 was installed under special survey. The workmanship and materials used are good.

The governing, compounding and regulation of the generator set were tested. The insulation resistance of each circuit measured and found satisfactory.

In my opinion the installation is suitable for a classed vessel.

Noted
27/7/41

Total Capacity of Generators 25 Kilowatts.

The amount of Fee ... £ 30 : 0 : 0

Specification £ 5 : 0 : 0

Travelling Expenses (if any) £ : : 0

When applied for,

20/6/1941

When received.

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L. B. Owen

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned