

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No 80084.

13 Feb 1926

of writing Report  
in Survey held at Newcastle  
eg. Book. Suff.  
469 on the Patris II  
at Newcastle  
By whom built Swan Hunter & Wigham Richardson Ltd  
Yard No. 1283 When built 1925  
Port belonging to London  
Contract No. 1283 When fitted 1925  
Electric Light Installation fitted by Swan Hunter & Wigham Richardson Ltd

System of Distribution Double wire volts, Power 110 volts, Heating Disect Power Yes  
Pressure of supply for Lighting Disect Power Yes  
Direct or Alternating Current, Lighting Disect Power Yes  
alternating current system, state frequency of periods per second Yes  
as the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes  
generators, do they comply with the requirements regarding overload Yes, are they compound wound Yes  
re they over compounded 5 per cent. Yes, if not compound wound state distance between each generator Yes  
There more than one generator is fitted are they arranged to run in parallel Yes  
series with each shunt field Yes  
Are all terminals accessible and clearly marked Yes  
Are the lubricating arrangements of the generators as per Rule Yes  
Position of Generators Engine room starboard side  
the ventilation in way of the generators satisfactory Yes  
if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators Yes  
and Yes, are the generators protected from mechanical injury and damage from water, steam or oil Yes  
are their axis of rotation fore and aft Yes  
Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes  
their respective generators in metallic contact Yes  
Main Switch Boards, where placed Engine room starboard side  
If the generators and main switchboard are not placed in the same compartment, is each generator provided with  
a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard Yes  
Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes  
are they protected from mechanical injury and damage from water, steam or oil Yes  
woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards Yes  
are they constructed wholly of durable, incombustible non-absorbent materials Yes  
permanently high insulation resistance Yes  
insulated from the slab with mica or micanite and the slab similarly insulated from its framework Yes  
frame effectively earthed Yes  
Are the following fittings as per Rule, viz.:— spacing or shielding of live parts Yes  
accessibility of all parts Yes  
absence of fuses on back of board Yes  
connections of switches Yes  
individual fuses to voltmeter, pilot or earth lamp Yes  
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Double pole  
change-over switch & double pole fuses for generators. Double pole single throw switches  
& double pole fuses for each outgoing circuit  
Instruments on main switchboard 2 ammeters 2 voltmeters — synchronising device for paralleling purposes. Earth lamps coupled  
Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system to earth through switches fuses.  
Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes  
Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes



MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP ... ..								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP ...								
	EMERGENCY BILGE PUMP ...	1	.07592	19	.072	80 ✓	300	rubber	Lead covered and
	SANITARY PUMP ... ..								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR ... ..								
	FRESH WATER PUMP ... ..								
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP								
	WINDLASS ... ..								
	WINCHES, FORWARD ... ..								
	WINCHES, AFT ... ..								
	STEERING GEAR ... ..								
	WORKSHOP MOTOR ... ..								
	VENTILATING FANS ... ..								



All Conductors are of annealed copper conforming to British Standard Specification No. 7.  
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.  
The foregoing is a correct description.

For  
SWAN. HUNTER. & WIGHAM RICHARDSON, LTD.

Electrical Engineers.

Date 10 Feb 1926

#### COMPASSES.

Distance between electric generators or motors and standard compass 120 feet

Distance between electric generators or motors and steering compass 120 feet

The nearest cables to the compasses are as follows:—

A cable carrying 7.5 Ampères 6 feet from standard compass 5 feet from steering compass.

A cable carrying 5.0 Ampères 4 feet from standard compass 3 feet from steering compass.

A cable carrying .25 Ampères on the feet from standard compass 2 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 all course in the case of the standard

compass, and nil degrees on all course in the case of the steering compass.

For  
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

T. Cunningham

Builder's Signature.

Date 11 Feb 1926

Is this installation a duplicate of a previous case No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

The above installation is in accordance with the Society Rules. The vessel is eligible in my opinion for notation elec light wireless

It is submitted that  
this vessel is eligible for  
THE RECORD.

Elec. Light.

W.A. 15/2/26

Total Capacity of Generators 63 Kilowatts

The amount of Fee ... £ 28 : 16 : 5/2/19.26

Travelling Expenses (if any) £ : : 12/2/19.26

W.T. Badger  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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Foundation