

Rpt. 13.

No. 83485.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

19 NOV 1928

Received at London Office.....

Date of writing Report

19

When handed in at Local Office

17/11/

1928

Port of Newcastle-on-Tyne

No. in Survey held at

Newcastle.

Date, First Survey

Sept. 26th

Last Survey

November 1st

1928.

Reg. Book, Supp

(Number of Visits.....5.....)

92278. on the S.S. "Dilsington Court"

Tons { Gross 6910.
Net 4335

Built at

Newcastle.

By whom built

Armstrong Whitworth & Co. Yard No. 1040

When built 1928

Owners

United British S.S. Co. Ltd

Port belonging to

London

Electric Light Installation fitted by Armstrong Whitworth & Co. Ltd. Contract No. 1040. When fitted 1928.

System of Distribution

Double wire

Pressure of supply for Lighting

110

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct

Power

If alternating current system, state frequency of periods per second

Has 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 rating

Yes.

, are they compound wound

Yes

are they over compounded 5 per cent.

Yes

, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel

series with each shunt field

Yes.

Are all terminals accessible, clearly marked, and furnished with sockets

Yes

, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

Yes

Are the lubricating arrangements of the generators as per Rule

Yes.

Position of Generators

Engine room starboard side

is the ventilation in way of the generators satisfactory

Yes

, are they clear of all inflammable material

Yes

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

and

, are the generators protected from mechanical injury and damage from water, steam or oil

Yes

are their axes of rotation fore and aft

Yes

Earthing, are the bedplates and frames of the generating plant efficiently earthed

Yes

are the prime movers and

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

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

, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

and

are they constructed wholly of durable, non-ignitable non-absorbent materials

Yes

, is all insulation of high dielectric strength and of

permanently high insulation resistance

Yes

, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

Yes

and is the frame effectively earthed

Yes

Are the fittings as per Rule regarding:— spacing or shielding of live parts

Yes

accessibility of all parts

Yes

, absence of fuses on back of board

Yes

, proportion of omnibus

bars

Yes

, individual fuses to voltmeter, pilot or earth lamp

Yes

, connections of switches

Yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

Double pole switch
+ fuses on generator. Single pole switch + double pole fuses for
each outgoing circuit

Instruments on main switchboard

one.

ammeters

one.

voltmeters

synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

Earth lamps

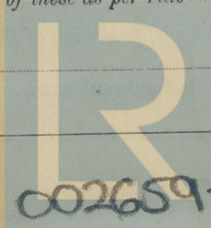
Coupled to earth through switches + fuses.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

Yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

Yes.



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Cables: Single, twin, concentric, or multicore *single to in* are the cables insulated and protected as per Tables IV or V of the Rules *Yes*.

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *3.0 volts*.

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets *Yes*.

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound *Yes*.

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *Yes*.

Support and Protection of Cables, state how the cables are supported and protected *Taped & braided in heavy gauge conduit in cargo space. Lead covered in acc. Lead covered & arm'd in engine room.*

If cables are run in wood casings, are the casings and caps secured by screws *Yes*, are the cap screws of brass *Yes*, are the cables run in separate grooves *Yes*. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII *Yes*.

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *None made*.

Joints in Cables, state if any, and how made, insulated, and protected *None made*.

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *Yes*.

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *Yes*, state the material of which the bushes are made *Lead*.

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *Yes*.

are their connections made as per Rule *Yes*.

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *Yes*.

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven *Yes*.

Navigation Lamps, are these separately wired *Yes*, controlled by separate switch and separate fuses *Yes*, are the fuses double pole *Yes*, are the switches and fuses grouped in a position accessible only to the officers on watch *Yes*.

has each navigation lamp an automatic indicator as per Rule *Yes*.

Secondary Batteries, are they constructed and fitted as per Rule *Yes*.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight *Yes*.

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected *Yes*.

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *Yes*.

how are the cables led *Yes*.

where are the controlling switches situated *Yes*.

Searchlight Lamps, No. of *one*, whether fixed or portable *fixed*, are their fittings as per Rule *Yes*.

Arc Lamps, other than searchlight lamps, No. of *—*, are their live parts insulated from the frame or case *—*, are their fittings as per Rule *Yes*.

Motors, are their working parts readily accessible *—*, are the coils self-contained and readily removable for replacement *—*.

are the brushes, brush holders, terminals and lubricating arrangements as per Rule *—*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *—*.

are they protected from mechanical injury and damage from water, steam or oil *—*, are their axes of rotation fore and aft *—*.

if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type *—*.

if not of this type, state distance of the combustible material horizontally or vertically above the motors *—* and *—*.

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule *—*.

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *—*.

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings *—*.

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office *—*.

section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings *—*.

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office *—*.

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	15	110	136	320	Single cylinder steam engine.		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	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.				
	MAIN GENERATOR...	2	.1964	37	.083	136	50	Y.I.R.	Lead covered, arm'd & braided
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM <i>Box</i>	2	.01046	Y	.044	6.18	15	50	50
	BOILER ROOM								
	ACCOMMODATION <i>See Box</i>	2	.0396	19	.052	34.6	240	50	50
	<i>Mid Acc dis box</i>	2	.00701	Y	.036	9.2	10	50	Lead covered
	<i>Iron dis box</i>	2	.01046	Y	.044	14.4	230	50	Taped & braided in pipe
	<i>Navigation</i>	2	.00701	Y	.036	11.0	80	50	Lead covered
	<i>Engo Acc</i>	2	.01046	Y	.044	19.4	130	50	Lead covered & arm'd
	<i>After Acc</i>	2	.00455	Y	.029	4.0	230	50	in pipe.
	WIRELESS	2	.01046	Y	.044	10	300	50	Lead covered & arm'd & braided
	SEARCHLIGHT	2	.0396	19	.052	60	400	50	50
	MASTHEAD LIGHT...	2	.00194	3	.029	.9	420	50	50
	SIDE LIGHTS...	2	.00194	3	.029	.9	80	50	Lead covered
	COMPASS LIGHTS...	2	.00194	3	.029	.18	25	50	50
	<i>Deck</i> LIGHTS	2	.00194	3	.029	.9	500	50	50
	CARGO LIGHTS	2	.00194	3	.029	1.6	80	50	Taped & braided in pipe
	ARC LAMPS								
	HEATERS								

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								
	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—								
	(a) MOTOR GENERATOR...								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								



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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.

Armstrong Whitworth & Co. Ltd.

Electrical Engineers.

Date 14/11/28.

COMPASSES.

Distance between electric generators or motors and standard compass 86 feet.

Distance between electric generators or motors and steering compass 80 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 18 Ampères on the feet from standard compass 8 feet from steering compass.

A cable carrying 18 Ampères 8 feet from standard compass on the feet from steering compass.

A cable carrying 4.5 Ampères 10 feet from standard compass 5 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.

SIR W. G. ARMSTRONG, WHITWORTH & CO., LTD.

W. P. Whitworth
GENERAL MANAGER.

Builder's Signature.

Date 14 NOV. 1928

Is this installation a duplicate of a previous case Yes. If so, state name of vessel "Simnington Court"

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

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

It is submitted that
this vessel is eligible for
THE REGISTRATION

Elec Light

D.A.

20/11/28.

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ... £ 15 : — : When applied for, 12.11.1928

Travelling Expenses (if any) £ : : When received, 17.11.1928

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned Elec Light



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