

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

DEC 28 1938

Date of writing Report

10

When handed in at Local Office

24. 12. 1938

Port of *Belfast*

No. in Survey held at

Date, First Survey

12th April 1938

Last Survey

13th Dec.

1938

Reg. Book.

(Number of Visits.....)

73547 on the *Durban Castle*Tons {
Gross
NetBuilt at *Belfast*

By whom built

Harland & Wolff Ltd. Yard No. *987*When built *1938*Owners *The Union Castle Mail Steamship Co.* Port belonging toElectric Light Installation fitted by *Harland & Wolff Ltd.*Contract No. *987*When fitted *1938*Is the Vessel fitted for carrying Petroleum in bulk *No.*System of Distribution *Two Wire Direct Current System.*Pressure of supply for Lighting *220* volts, Heating *220* volts, Power *220* volts.Direct or Alternating Current, Lighting *Direct* Power *Direct*

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 temperature rise *Yes*, are they compound wound *Yes*are they over compounded 5 per cent. *Yes.*, if not compound wound state distance between each generatorWhere more than one generator is fitted are they arranged to run in parallel *Yes.*, is an adjustable regulating resistance fitted in series with each shunt field *Yes.*Have certificates of test results for machines under 100 kw. been submitted and approved *Yes.*Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing *Yes.*Have certificates for generators under 100 kw. been supplied and approved *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 *Main Generators in Aux. Motor Room, Emergency Generator in Emergency Dynamo Room B Deck Aft.* 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 *Switchboard Platform Fore End of Auxiliary Motor Room.* 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.*is it of an approved type *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 frameworkis the non-hygroscopic insulating material of an approved type and is the frame effectively earthed *Yes.*

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

accessibility of all parts *Yes.*, absence of fuses on back of board *Yes.*, temperature rise of omnibus bars *Yes.*individual fuses to voltmeter, pilot or earth lamp *Yes.*, are moving parts of switches alive in the "off" position *No.*are all screws and nuts securing connections effectively locked *Yes.* are any fuses fitted on the live side of switches *No.*

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

D.P. Overload Reverse Current Circuit Breaker with Time Limits and Interlocked Equaliser Switch for each Generator and D.P. Overload Circuit Breaker for each Outgoing Circuit.

Are turbine driven generators fitted with emergency trip switch as per rule

Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material *Yes.*Instruments on main switchboard *4* ammeters *2*voltmeters *arranged for synchronising device* for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection*Yes.*

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

Earth Lamps Controlled by D.P. One Way Switch (Main Busbars) Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *Yes.*are the fusible cutouts of an approved type *Yes.* have the reversed

current protection devices been tested under working conditions Yes. are all fuses labelled as per rule Yes.

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

Cables: Single, twin, and or multicore Yes. are the cables insulated and protected as per Tables IV, V, X, XI, XII or XIII of the Rules Yes.

If the cables are insulated otherwise than as per Rule, are they of an approved type Yes. **Fall of Pressure,** state maximum between bus bars and any point of the installation under maximum load 95 Volts Emergency Edge Pump. **Cable Sockets,** are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets Yes. **Paper Insulated and Varnished Cambric Insulated Cables,** If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound Yes. or waterproof insulating tape 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. are cables laid under machines or floorplates No. if so, are they adequately protected Hard Rubber Waterproof Type Cables

Are cables in machinery spaces, galleys, lavatories, bathrooms and lavatories lead covered or run in conduit clipped to Perforated Steel Plating. **Support and Protection of Cables,** state how the cables are supported and protected clipped to Perforated Steel Plating or Wood Casing.

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, are the cables and fittings in accordance with the special requirements Yes.

Joints in Cables, state if any, and how made, insulated, and protected In Specially Constructed & Insulated Joint Boxes

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 All Metal Portable Fittings not fitted to Framework of Ship are earthed with Connector Equivalent to Working Conductor. 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 Emergency Generator direct coupled to Diesel Engine situated in House "B" Deck Aft Controlled from Emergency Switchboard in same House.

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. are they ventilated 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. are all fittings suitably ventilated Yes. are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials Yes.

Heating and Cooking Appliances, are they constructed and fitted as per Rule Yes. are air heaters constructed and fitted as per Rule Yes.

Searchlight Lamps, No. of 2 for Lifboats whether fixed or portable Portable. are their fittings as per Rule Yes.

Motors, are their working parts readily accessible Yes. are the coils self-contained and readily removable for replacement Yes. are the brushes, brush holders, terminals and lubricating arrangements as per Rule Yes. are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material Yes. are they protected from mechanical injury and damage from water, steam or oil Yes. are their axes of rotation fore and aft Horizontal Type - Yes. 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 Yes. if not of this type, state distance of the combustible material horizontally or vertically above the motors Yes. and Yes.

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing Yes. have certificates for all motors for essential services been supplied and approved Yes. **Control Gear and Resistances,** are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule Yes. **Lightning Conductors,** where lightning conductors are required, are these fitted as per Rule Yes. **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 Yes. are all fuses of the filled cartridge type Yes. are they of an approved type Yes.

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed flameproof type approved for use in dangerous spaces Yes.

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule Yes. are they suitably stored in dry situations Yes.

MOTOR CONDUCTORS (CONTINUED)										
DESCRIPTION	Nº OF MOTORS	CONDUCTORS NO. PER POLE	COMPOSITION OF STRAND Nº	DIA.	TOTAL MAXIMUM CURRENT IN CIRCUIT	AMP. RULE	APPROXIMATE LENGTH LEAD RETURN FEET	INSULATED WITH	HOW PROTECTED	
Motor Room Fans.	4	1	.06	19	.064	80	83	450	Rubber	Hard Rubber.
Tunnel Fan.	1	1	.003	3	.036	6	12.9	650	Rubber	Hard Rubber.
Refrig. Fans. 2 H.P.	3	1	.003	3	.036	8	12.9	600	Rubber	Hard Rubber.
Refrig. Fans. 7 1/2 H.P.	2	1	.01	7	.044	30	31.0	300	Rubber	Hard Rubber.
Refrig. Fans. 8 H.P.	4	1	.0145	7	.052	32	37.0	525	Rubber	Hard Rubber.
Refrig. Fans. 11 1/2 H.P.	2	1	.0225	7	.064	46	46	300	Rubber	Hard Rubber.
Boiler Blowers.	2	1	.0045	7	.029	14	18.2	120	Rubber	Hard Rubber.
Hot S.W. Pumps.	2	1	.0145	7	.052	32	37.0	110	Rubber	Hard Rubber.
Sprinkler Pump.	1	1	.25	37	.093	208	214	150	Rubber	Hard Rubber.
Sprinkler Compressor	1	1	.003	3	.036	8	12.9	160	Rubber	Hard Rubber.
Sewage Ejectors.	2	1	.04	19	.052	64	64	450	Rubber	Hard Rubber.
Oil Vapour Fans.	2	1	.007	7	.036	18	24	150	Rubber	Hard Rubber.
6 Ton Cranes.	2	1	.007	7	.036	20	24	390	Rubber	Hard Rubber.
2 Ton Crane.	1	1	.0045	7	.029	16	18.2	180	Rubber	Hard Rubber.
Rubbish Shoot Winch.	1	1	.0045	7	.029	11	18.2	300	Rubber	Hard Rubber.
Aux. S.W. Crac. Pumps.	2	1	.0225	7	.064	44	46	240	Rubber	Hard Rubber.
Aux. S.W. Crac. Pumps.	2	1	.01	7	.044	28	31	330	Rubber	Hard Rubber.
Low Pressure Generator.	1	1	.003	3	.036	8.3	12.9	75	Rubber	Hard Rubber.
Calorifier Heater Fans.	6	1	.002	3	.029	4	7.8	180	Rubber	Hard Rubber.
Quay Condenser Crac. Pump	1	1	.003	3	.036	9	12.9	90	Rubber	Hard Rubber.
Lathe.	1	1	.003	3	.036	7	12.9	60	Rubber	Hard Rubber.
Drilling Machine.	1	1	.003	3	.036	9	12.9	50	Rubber	Hard Rubber.
Shaping Machine.	1	1	.0045	7	.029	17	18.2	60	Rubber	Hard Rubber.
Grinding Machine.	1	1	.003	3	.036	9	12.9	50	Rubber	Hard Rubber.
S.O. Service Pumps.	3	1	.003	3	.036	9	12.9	60	Rubber	Hard Rubber.
Lub. Oil Purifiers.	4	1	.0045	7	.029	11	18.2	90	Rubber	Hard Rubber.
Fuel Oil Purifiers.	5	1	.0045	7	.029	11	18.2	90	Rubber	Hard Rubber.
Lub. Oil Drain Pump.	1	1	.003	3	.036	8	12.9	120	Rubber	Hard Rubber.
W.T. Don Motor No. 1.	1	1	.0225	7	.064	4.5/23	46	300	Rubber	Hard Rubber.
W.T. Don Motor No. 2	1	1	.0225	7	.064	6/28	46	310	Rubber	Hard Rubber.
W.T. Don Motor No. 3	1	1	.0225	7	.064	6/28	46	600	Rubber	Hard Rubber.
W.T. Don Motor No. 4	1	1	.0225	7	.064	4.5/23	46	800	Rubber	Hard Rubber.
W.T. Don Motor No. 5	1	1	.0225	7	.064	4.5/23	46	990	Rubber	Hard Rubber.
Boat Winches 10 H.P.	11	1	.0225	7	.064	44	46	600	Rubber	Hard Rubber.
Boat Winches 15 H.P.	2	1	.04	19	.052	63	64	270	Rubber	Hard Rubber.
Nyano Extractor.	1	1	.0145	7	.052	32	37	330	Rubber	Hard Rubber.
Rotary Washing M/c.	1	1	.0045	7	.029	12.5	18.2	45	Rubber	Hard Rubber.
Decidion Ironing M/c.	1	1	.003	3	.036	9	12.9	90	Rubber	Hard Rubber.
Collar Ironing M/c.	1	1	.002	3	.029	4	7.8	90	Rubber	Hard Rubber.
Clasador.	1	1	.002	3	.029	2	7.8	60	Rubber	Hard Rubber.
12"ia Unit in Laundry	1	1	.002	3	.029	1	7.8	90	Rubber	Hard Rubber.
C.O. Compressors.	3	1	1.0	127	.103	480	595	90	Rubber	Hard Rubber.
Brine Pumps 10 H.P.	3	1	.0225	7	.064	40	36	90.	Rubber	Hard Rubber.
Brine Pumps 7 1/2 H.P.	2	1	.01	7	.044	30	41.3	105	Rubber	Hard Rubber.
Force Brine Pump.	1	1	.0045	7	.029	16	18.2	140	Rubber	Hard Rubber.
Water Circulating Pump.	2	1	.03	19	.044	47	53	170	Rubber	Hard Rubber.
Dehydrator Fan.	1	1	.002	3	.029	2	7.8	45	Rubber	Hard Rubber.
Hallmark M/c 3/4 H.P.	2	1	.002	3	.029	4	7.8	120	Rubber	Hard Rubber.
Galley Blowers.	2	1	.002	3	.029	4	7.8	70	Rubber	Hard Rubber.
Handless Gen'l Purifier M/c	1	1	.0045	7	.029	12.5	18.2	70	Rubber	Hard Rubber.
Ice Cream M/c.	1	1	.0045	7	.029	12.5	18.2	60	Rubber	Hard Rubber.
Freezer.	1	1	.003	3	.036	7	12.9	60	Rubber	Hard Rubber.
Dough Mixer.	1	1	.0045	7	.029	12.5	18.2	60	Rubber	Hard Rubber.
Punting Machine.	1	1	.002	3	.029	5	7.8	80	Rubber	Hard Rubber.
Coffee Machine.	1	1	.002	3	.029	2	7.8	40	Rubber	Hard Rubber.
Stores Hoist.	1	1	.0045	7	.029	12	18.2	40	Rubber	Hard Rubber.
Solvent Machine.	1	1	.002	3	.029	1.5	7.8	70.	Rubber	Hard Rubber.
Passenger Lift.	1	1	.01	7	.044	24	31	150	Rubber	Lead Covered
Pantry Hoist.	1	1	.003	3	.036	5	12.9	160	Rubber	Lead Covered.
Engineers Lift.	1	1	.003	3	.036	11	12.9	200	Rubber	Lead Covered.

in U. I. R. Lead Covered Cables.

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 ...	4	450	222	2027	330	Diesel Engine.		
AUXILIARY ...	—							
EMERGENCY ...	1	50	222	228	500	Diesel Engine.		
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.			
MAIN GENERATOR ...	2	2.0	Copper Bar		2027		25' gen. to Board	—	Encased in metal framework.
EQUALISER CONNECTIONS	1	1.0	Copper Bar				25' gen. to Board	—	Encased in metal framework.
AUXILIARY GENERATOR...	—								
EMERGENCY GENERATOR	1	0.3	37	.103	228	240	40	Rubber	Hard Rubber.
ROTARY TRANSFORMER } MOTOR									
TRANSFORMER } GENERATOR...									
ENGINE ROOM...									
BOILER ROOM...									
AUXILIARY SWITCHBOARDS									
A 2nd Preference.	1	0.6	91	.093	470	561	210	Varnished Cambric	Lead Covered & Braided
B 1st Preference.	1	0.5	61	.103	457	486	180	Varnished Cambric	Lead Covered & Braided
B 2nd Preference.	1	0.85	127	.093	620	733	180	Varnished Cambric	Lead Covered & Braided
C 1st Preference.	1	1.0	127	.103	700	839	930	Varnished Cambric	Lead Covered & Braided
D 1st Preference.	1	1.15	37	.072	130	222	525	Varnished Cambric	Lead Covered & Braided
D 2nd Preference.	1	1.9	127	.103	163	839	525	Varnished Cambric	Lead Covered & Braided
E 1st Preference.	1	0.25	37	.093	240	309	120	Varnished Cambric	Lead Covered & Braided
E 2nd Preference.	1	0.4	61	.093	365	417	120	Varnished Cambric	Lead Covered & Braided
F 1st Preference.	1	0.4	61	.093	305	417	660	Varnished Cambric	Lead Covered & Braided
G 1st Preference.	1	Copper Bar			245	Part of Main Switchboard.			
Accommodation									
H 2nd Preference.	1	0.85	127	.093	772	733	100	Varnished Cambric	Lead Covered & Braided
H 2nd Preference.	1	1.0	127	.103	960	839	100	Varnished Cambric	Lead Covered & Braided
J 1st Preference.	3	2.25	91	.103	1759	1992	138	Varnished Cambric	Lead Covered & Braided
K 1st Preference.	2	1.5	91	.103	1272	1328	150	Varnished Cambric	Lead Covered & Braided
WIRELESS	1	.0225	7	.064	27	46	810	Rubber	Hard Rubber
SEARCHLIGHT									
MASTHEAD LIGHT	1	.003	3	.036	0.18	12.9	600	Rubber.	Hard Rubber. Lead Covered up Mast.
SIDE LIGHTS	1	.003	3	.036	0.18	12.9	120	Rubber.	Hard Rubber
COMPASS LIGHTS	1	.002	3	.029	0.18	7.8	30	Rubber.	Hard Rubber.
POOP LIGHTS									
CARGO LIGHTS	1	.06	19	.064	37	83	1200	Rubber	Hard Rubber.
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
Bilge Pump	2	1	.06	19	.064	72	83	180	Rubber	Hard Rubber.
Fire & Bilge Pump	1	1	.10	19	.083	104	118	210	Rubber	Hard Rubber.
MAIN BILGE LINE PUMPS										
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP	1	1	.06	19	.064	56	83	1200	Rubber	Hard Rubber
Sanitary Pump (Emerg.)	1	1	.10	19	.083	100	118	1200	Rubber	Hard Rubber
SANITARY PUMP (or Main)	1	1	.10	19	.083	100	118	195	Rubber	Hard Rubber.
CIRC. SEA WATER PUMPS	4	1	.20	37	.083	180	184	210	Rubber	Hard Rubber.
CIRC. FRESH WATER PUMPS...	2	1	.15	37	.072	132	152	120	Rubber	Hard Rubber.
AIR COMPRESSOR	2	1	.75	91	.103	392	461	180	Rubber	Hard Rubber.
FRESH WATER PUMP	2	1	.0225	7	.064	40	46	210	Rubber	Hard Rubber.
ENGINE TURNING GEAR...	2	1	.04	19	.052	60	64	225	Rubber	Hard Rubber.
ENGINE REVERSING GEAR	4	1	.003	3	.036	8	12.9	60	Rubber	Hard Rubber.
Aux. Engine Turning Gear	2	1	.85	127	.093	400	512	255	Rubber	Hard Rubber.
LUBRICATING OIL PUMPS	2	1	.6	91	.093	360	384	255	Rubber	Hard Rubber.
OIL FUEL TRANSFER PUMP...	2	1	.03	19	.044	48	53	210	Rubber	Hard Rubber.
WINDLASS	1	1	.5	61	.103	385	534	270	Rubber	Hard Rubber.
WINCHES, FORWARD	2	1	.15	37	.072	190	191	105	Rubber	Hard Rubber.
Winches, Forward	4	1	.10	19	.083	118	142	120	Rubber	Hard Rubber.
WINCHES, AFT	6	1	.10	19	.083	118	142	360	Rubber	Hard Rubber.
Warping Winch	1	1	.5	61	.103	375	534	210	Rubber	Hard Rubber.
Capstan	2	1	.5	61	.103	375	534	100	Rubber	Hard Rubber.
STEERING GEAR—										
(a) MOTOR GENERATOR...										
(b) MAIN MOTOR	2	1	.2	37	.083	233	247	360	Rubber	Hard Rubber.
WORKSHOP MOTOR										
VENTILATING FANS 0.19 B.H.P.	3	1	.002	3	.029	1.2	7.8	360	Rubber	Hard Rubber
Ventilating Fans 0.2 B.H.P.	1	1	.002	3	.029	1.21	7.8	320	Rubber	Hard Rubber
Ventilating Fans 0.5 B.H.P.	2	1	.002	3	.029	2.7	7.8	330	Rubber	Hard Rubber
Ventilating Fans 1.0 B.H.P.	3	1	.002	3	.029	4.5	7.8	320	Rubber	Hard Rubber
Ventilating Fans 2.0 B.H.P.	10	1	.003	3	.036	8.9	12.9	350	Rubber	Hard Rubber
Ventilating Fans 3.0 B.H.P.	13	1	.0045	7	.029	13.0	18.2	360	Rubber	Hard Rubber
Ventilating Fans 4.75 B.H.P.	5	1	.007	7	.036	20.6	24	330	Rubber	Hard Rubber.
Ventilating Fans 5.5 B.H.P.	4	1	.007	7	.036	22.5	24	150	Rubber	Hard Rubber.

Note:— All Wiring & Cables in Vicinity of Wheelhouse & Wireless Room in U. I. R. Lead Covered Cables.

The Electrical Equipment is installed in accordance with the approved plans.

All Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.



Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass 120 Feet. 50 Feet Nearest Motor.

Minimum distance between electric generators or motors and steering compass 110 Feet. 40 Feet Nearest Motor.

The nearest cables to the compasses are as follows:—

A cable carrying 40 Ampères 15 feet from standard compass 10 feet from steering compass.

A cable carrying 1-4 Ampères 10 feet from standard compass 15 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 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.



Builder's Signature.

Date

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. This installation has been fitted

on board under special survey and in accordance with the approved plans and has been tested under full working conditions and found satisfactory. The materials & workmanship have been found to be good & sound.

Wid.
29/12/38.

Total Capacity of Generators 1850 Kilowatts.

The amount of Fee ... £91 : 5 : 24.12.38
Belfast £45.12.6
Liverpool £45.12.6
Travelling Expenses (if any) £ : : 14.1.39

R.C. Clayton & Charles V. Hunter
Surveyors to Lloyd's Register of Shipping.

Committee's Minute

TUE 8 JAN 1939

Assigned

See FE machy rpt



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Foundation