

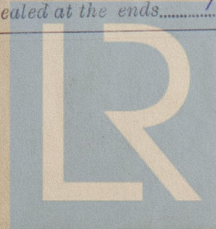
REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office MAR 1949

Date of writing Report 25-2-49 When handed in at Local Office 4-3-49 Port of Belfast
 No. in Survey held at Belfast & LONDON Date, First Survey 10 Nov 1947 Last Survey 22 Feb 1949
 Reg. Book. 95000 on the S.S. Magdalena Tons { Gross 17547
 Net 9886
 Built at Belfast By whom built Messrs Harland & Wolff Ltd. Yard No. 1354 When built 1946-9
 Owners Royal Mail Lines Ltd. Port belonging to London
 Electrical Installation fitted by Messrs Harland & Wolff Ltd. Contract No. 1354 When fitted 1947-9
 Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. No

Have plans been submitted and approved Yes System of Distribution Two Wire Voltage of supply for Lighting 220
 Heating 220 Power 220 Direct or Alternating Current, Lighting Direct Power Direct 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 Yes 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 Pole Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Yes 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 Main 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 On Switchboard Platform in Main Engine
 Room
 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 Sindanyo, 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 2-3150 amp Triple Pole
 Circuit Breakers (1 pole for equaliser) with Overload, Reverse Current, Time Lag, Shunt
 Trip and Preference Trip Relay, Positive pole elect operated 2-1600 amp ditto
 and for each outgoing circuit 16 Double Pole Circuit Breakers ranging from 200 to 1,500 amps with O/L, T/L, S/T,
 & Aux Switch 17 Double Pole Circuit Breakers ranging from 200 to 100 amps with O/L and T/L
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 25
 ammeters 2 voltmeters — synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the
 equaliser connection Yes Earth Testing, state means provided 2 lamp system with O.P. Switch 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 1600 AMPS, are the reversed current
 protection devices connected on the pole opposite to the equaliser connection Yes, have they been tested under working conditions, and at what current
 did they operate 475 AMPS. (TURBOS) Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Yes
 (DIESELS)
 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 7.4 volts 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 Yes



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with insulating compound. — or waterproof insulating tape. Yes Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage. Yes are cables laid under machines or floorplates. No if so, are they adequately protected. — Are cables in machinery spaces, galleys, laundries, etc., lead covered. No or run in conduit. No State how the cables are supported and protected. Lead covered and H.R. type cable clipped to perforated plating and bulkheads in accommodation, etc. clipped to solid steel plate & protected in cargo space, and in galvanised iron pipes to deck machinery.

Are all lead sheaths, armouring and conduits effectually bonded and earthed. Yes Refrigerated chambers, are the cables and fittings as per Rule. Yes

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands. Yes where unarmoured cables pass through beams, etc., are the holes effectively bushed. Yes and with what material. Lead Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position. Emergency generator in Emerg. Dynamo Rm. Deckhouse 'B' Deck and method of control. 500 amp. DP Circuit Breakers with No. volt release & time lag

Navigation Lamps, are they separately wired. Yes controlled by separate double pole switches. Yes and fuses. Yes Are the switches and fuses in a position accessible only to the officers on watch. Yes is an automatic indicator fitted. Yes Secondary Batteries, are they constructed and fitted as per Rule. —, are they adequately ventilated. — what is the battery capacity in ampere hours. —

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. Yes Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. No if so, how are they protected. — Gas tight fittings in paint room

and where are the controlling switches fitted. non-dangerous positions are all fittings suitably ventilated. Yes

are all fittings and accessories constructed and installed as per Rule. Yes Searchlight Lamps, No. of. 1, whether fixed or portable. portable are their fittings as per Rule. Yes Heating and Cooking, is the general construction as per Rule. Yes Motors, are all motors constructed and are the frames effectually earthed. Yes are heaters in the accommodation of the convection type. Yes installed as per Rule. Yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil. Yes if situated near unprotected combustible material state minimum distance from same horizontally. — and vertically. — Are motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. Yes

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. Yes Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule. Yes Control Gear and Resistances, are they constructed and fitted as per Rule. Yes Lightning Conductors, where required are they fitted as per Rule. — Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with. —, are all fuses of the cartridge type. — are they of an approved type. — Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. — Are the cables lead covered as per Rule. — Spare Gear, if the vessel is for open sea service have spares been provided as per Rule. Yes are they suitably stored in dry situations. Yes Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. Yes

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	700	225	3110	750	Steam Turbine	Oil	Above 150° F.
	2	360	225	1600	300	Diesel		
LOW POWER.	1	1.5	24	7.5	2800	Electric Motor	Oil	Above 150° F.
EMERGENCY	1	100	225	445	1200	Diesel		
ROTARY TRANSFORMER	—							

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.				
MAIN GENERATOR (Turbines)	(2) 700	6	127.103"	3110	3570	40	V.I.R. Hard Rubber
" " EQUALISER	(2) 360	3	127.103"	1600	1785	40	" " Steel Plate Cover
" " (Diesel)	(2) 360	3	127.103"	1600	1785	72	" " " "
" " Equaliser	1.5	2	91.103"	7.5	24	32	" " Hard Rubber
Low Power generator	1.5	1	7.036"	7.5	24	32	" " " "
EMERGENCY GENERATOR	100	1	91.103	445	461	40	" " " "
ROTARY TRANSFORMER: MOTOR							
" " GENERATOR							

13 Rpt. 9a. Part of

Continuation of Report No. 14714 dated 1/3/49 on the

DESCRIPTION	No.	B.H.P.	CONDUCTORS No. in Parallel of Strands	MAX. CURRENT IN AMPS. IN CIRCUIT RULE	APPROX. LENGTH LEAD PLUS RETURN FT.	INSULATED WITH	HOW PROTECTED.
Domestic F.W. Pumps	2	9	1	7.064	36	46	210 V.I.R. Hard Rubber
C.O ₂ Compressor	3	160	1	127.103	590	595	120 " " "
Vacuum Refig. Pump	1	50	1	37.093	190	214	180 " " "
Chilled Water Pumps	2	50	1	37.093	190	214	180 " " "
Main Brine Pumps	4	15	1	19.052	60	64	200 " " "
Aux. Brine Pumps	2	6	1	7.044	25	31	200 " " "
L.T. Brine Pump	1	2	1	3.036	9	10	240 " " "
L.T. Compressor	1	4	1	7.036	17	24	120 " " "
V.R. Condensate Pump	1	6	1	7.044	25	31	250 " " "
Refig. S.W. Pumps	2	14	1	19.052	56	64	200 " " "
Refig. Fans	14	1/4	1	3.036	6	10	210 " " "
" "	12	2 3/4	1	7.029	12	15	200 " " "
" "	14	3 3/4	1	7.036	16	24	200 " " "
" "	8	6 1/4	1	7.044	26	31	200 " " "
Deck Ventilation Fans	5	1/2	1	3.029	2.8	5	50 " " "
" "	2	1	1	3.029	5.0	5	60 " " "
" "	10	1 3/4	1	3.036	8	10	72 " " "
" "	8	2 1/4	1	7.029	10	15	100 " " "
" "	8	2 3/4	1	7.029	12	15	100 " " "
" "	7	3 1/2	1	7.036	15	24	120 " " "
" "	4	4 1/2	1	7.036	19	24	120 " " "
" "	4	5 1/4	1	7.044	22	31	175 " " "
" "	3	6 3/4	1	7.044	28	31	150 " " "
" "	2	9	1	7.064	36	46	144 " " "
Engine Room Vent. Fans	4	8 1/2	1	7.064	34	46	200 " " "
Windlass	1	75	1	37.103	283	283	500 " " "
Warping Winch	1	68	1	37.103	272	283	500 " " "
5 Ton Winches	4	43	1	37.072	177	191	180 " " "
3 Ton Winches	12	26	1	19.072	106	113	180 " " "
Capstans	2	40	1	37.072	150	164	56 " " "
Boat Winches	4	12	1	19.044	50	53	200 " " "
Boat Winches	6	10	1	7.064	40	46	200 " " "
Passenger Elevator	1	10	1	7.064	40	46	160 " " "
Engineers Elevator	1	4	1	7.036	17	24	128 " " "
Steering Gear	2	60	1	37.103	225	240	240 " " "
Boiler Room Vent. Fans	2	8 1/2	1	7.064	34	75	200 V.C. Lead Covered
Gyro Motor	1	—	1	7.036	20	24	44 V.I.R. Lead Covered
Dish Washing Machine	2	1	1	3.036	5	10	80 " Hard Rubber
Bacon Slicer	2	1/4	1	3.029	1.6	5	80 V.I.R. Hard Rubber
Hobart Mixer	1	2	1	3.036	9	10	48 " " "
Hobart Mincer	1	1/4	1	3.029	1.6	5	20 " " "
Dough Kneader	1	3	1	7.029	13	15	64 " " "
Potato Peeler	4	1/2	1	3.029	2.8	5	64 " " "
Coffee Grinder	2	3/8	1	3.029	2	5	72 " " "

DESCRIPTION	CONDUCTORS		MAX CURRENT		APPROX LENGTH LEAD PLUS RETURN FT.	INSULATED WITH	HOW PROTECTED.
	NO. IN PAIR/POLE OF STRANDS	NO & DIA OF STRANDS	IN CIRCUIT	RULE			
AUX. SWITCHBOARD & SECTION BOARDS (CONTD.)							
Boat Winch Panel.	1	37/.083	146	✓ 134	480 FT.	V.I.R.	Hard Rubber.
Fan Section Panel 'A'	1	37/.103	200	✓ 240	240	"	"
" " " 'B'	1	19/.083	109	✓ 118	240	"	"
" " " 'C'	1	19/.064	46	✓ 83	240	"	"
S & F. Panel 'F1'	1	61/.093	238	✓ 238	496	"	"
S & F. Panel 'F2'	1	37/.103	186	✓ 240	450	"	"
S & F. Panel 'F3' (I)	1	37/.072	141	✓ 152	120	"	"
" " " " (II)	1	37/.064	112	✓ 130	120	"	"

LIGHTING & HEATING (CONTD.)

Dist. Box No. 16 (Heating)	1	19/.072	60	✓ 97	100	"	Hard Rubber.
Dist. Box No. 17 (Service Lighting)	1	7/.044	15	✓ 31	100	"	"
Dist. Box No. 18 (Domestic)	1	19/.064	25	✓ 83	300	"	"
S & F. Box No. 19 (Passenger Lighting)	1	19/.064	47	✓ 83	200	"	"
Dist. Box No. 20 (Passenger Lighting)	1	7/.044	10	✓ 31	220	"	"
Dist. Box No. 21 (Service Lighting)	1	7/.044	6	✓ 31	200	"	"
Dist. Box No. 22 (Passenger Lighting)	1	7/.044	10	✓ 31	80	"	"
Dist. Box No. 23 (Service Lighting)	1	7/.044	6	✓ 31	80	"	"
Dist. Box No. 24 (Domestic)	1	19/.064	25	✓ 83	80	"	"
S & F. Box No. 25 (Passenger Lighting)	1	7/.044	20	✓ 31	120	"	"
Dist. Box No. 26 (Service Lighting)	1	7/.064	15	✓ 46	340	"	"
S & F. Box No. 27 (bargo Lighting)	1	19/.083	20	✓ 118	996	"	"
Dist. Box No. 28 (Passenger Lighting)	1	7/.044	10	✓ 31	100	"	"
Dist. Box No. 29 (Domestic)	1	7/.064	35	✓ 46	460	"	"
Dist. Box No. 30 (Passenger Lighting)	1	7/.044	8.5	✓ 31	100	"	"
Dist. Box No. 31 (Service Lighting)	1	7/.036	10	✓ 24	150	"	"
Dist. Box No. 32 (Passenger Lighting)	1	7/.044	10	✓ 31	180	"	"
Dist. Box No. 33 (Passenger Lighting)	1	7/.044	8.5	✓ 31	150	"	"
Dist. Box No. 34 (Heating)	1	7/.064	23	✓ 46	160	"	"
Dist. Box No. 35 (Passenger Lighting)	1	7/.044	6	✓ 31	168	"	"
Dist. Box No. 36 (Passenger Lighting)	1	7/.044	6	✓ 31	144	"	"
Dist. Box No. 37 (Service Lighting)	1	7/.036	9	✓ 24	156	"	"
Dist. Box No. 38 (Passenger Lighting)	1	7/.044	6	✓ 31	104	"	"
Dist. Box No. 39 (Passenger Lighting)	1	7/.044	6	✓ 31	104	"	"
Dist. Box No. 40 (Passenger Lighting)	1	7/.036	12	✓ 24	84	"	"
Dist. Box No. 41 (Passenger Lighting)	1	7/.044	6	✓ 31	104	"	"
Dist. Box No. 42 (Passenger Lighting)	1	7/.044	6	✓ 31	192	"	"
Dist. Box No. 43 (Service Lighting)	1	7/.036	10	✓ 24	192	"	"
Dist. Box No. 44 (Heating)	1	19/.064	61	✓ 83	192	"	"
Dist. Box No. 45 (Service Lighting)	1	7/.044	10	✓ 31	224	"	"
Dist. Box No. 46 (Service Lighting)	1	7/.044	10	✓ 31	168	"	"
Dist. Box No. 47 (Service Lighting)	1	7/.044	7.5	✓ 31	130	"	"
Dist. Box No. 48 (Service Lighting)	1	7/.044	7.5	✓ 31	120	"	"
Dist. Box No. 49 (Service Lighting)	1	7/.036	14	✓ 24	88	"	"
Dist. Box No. 50 (Emerg. Lighting)	1	19/.083	10	✓ 118	664	"	"
S & F. Box No. 51 (bargo Lighting)	1	19/.083	20	✓ 118	664	"	"
S & F. Box No. 52 (Passenger Lighting)	1	19/.083	85	✓ 118	176	"	"

DESCRIPTION	CONDUCTORS		MAX. CURRENT IN CIRCUIT	CURRENT IN AMPS.	APPROX. LENGTH LEAD PLUS RETURN FT	INSULATED WITH	HOW PROTECTED
	NO IN PAR./POLE	NO & DIA. OF STRANDS					
LIGHTING & HEATING CONTO.							
Disk. Box No 53 EM. (Emergency lighting)	1	19/083	10 ✓	118	360	V.I.R.	Hard Rubber.
Disk. Box No 54 (Service lighting)	1	7/044	7 ✓	31	288	"	" "
Disk. Box No 55 (Service lighting)	1	7/044	7 ✓	31	236	"	" "
Disk. Box No 56 (Domestic)	1	19/083	33 ✓	118	154	"	" "
Disk. Box No 57 (Domestic)	1	19/083	33 ✓	118	88	"	" "
Disk. Box No 58 EM. (Emergency lighting)	1	19/083	10 ✓	118	336	"	" "
Disk. Box No 59 (Service lighting)	1	7/036	10 ✓	24	80	"	" "
Disk. Box No 60 (Domestic)	1	7/036	14 ✓	24	68	"	" "
Disk. Box No 61 EM. (Emergency lighting)	1	19/083	10 ✓	118	232	"	" "
Disk. Box No 62 EM. (Cargo lighting)	1	19/083	25 ✓	118	232	"	" "
S & F. Box No 63 (Passenger lighting)	1	7/044	20 ✓	31	28	"	" "
Disk. Box No 64 (Domestic)	1	7/029	4 ✓	15	100	"	" "
S & F. Box No 65 (Passenger lighting)	1	7/044	23 ✓	31	150	"	" "
Disk. Box No 66 (Service lighting)	1	7/044	10 ✓	31	140	"	" "
S & F. Box No 66A EM. (Cargo lighting)	1	19/083	15 ✓	118	32	"	" "
Disk. Box No 67 EM. (Emergency lighting)	1	19/083	10 ✓	118	32	"	" "
Disk. Box No 67A (Laundry light)	1	19/052	50 ✓	64	110	"	" "
Disk. Box No 68 (Service lighting)	1	7/044	8.5 ✓	31	212	"	" "
Disk. Box No 69 (Service lighting)	1	7/044	8.5 ✓	31	132	"	" "
Disk. Box No 70 (Service lighting)	1	7/044	15 ✓	31	132	"	" "
Disk. Box No 71 (Service lighting)	1	7/044	5 ✓	31	44	"	" "
Disk. Box No 71A (Service lighting)	1	7/044	5 ✓	31	68	"	" "
Disk. Box No 72 (Service lighting)	1	7/044	15 ✓	31	96	"	" "
Disk. Box No 73 (Fans)	1	7/044	13.5 ✓	31	152	"	" "
Disk. Box No 74 (Service lighting)	1	7/044	5 ✓	31	160	"	" "
Disk. Box No 75 (Passenger lighting)	1	7/029	7 ✓	15	160	"	" "
Disk. Box No 76 (Passenger lighting)	1	7/029	7 ✓	15	144	"	" "
Disk. Box No 77 (Service lighting)	1	7/029	10 ✓	15	84	"	" "
Disk. Box No 78 (Passenger lighting)	1	7/029	10 ✓	15	84	"	" "
Disk. Box No 79 (Passenger lighting)	1	7/029	6 ✓	15	84	"	" "
Disk. Box No 80 (Service lighting)	1	7/044	10 ✓	31	220	"	" "
Disk. Box No 81 (Passenger lighting)	1	7/044	7.5 ✓	31	154	"	" "
Disk. Box No 82 (Passenger lighting)	1	7/044	7.5 ✓	31	172	"	" "
Disk. Box No 83 (Service lighting)	1	7/044	10 ✓	31	28	"	" "
S & F. Box No 84 (Machy. Space lighting)	1	7/064	15 ✓	46	24	"	" "
S & F. Box No 85 (" " ")	1	7/064	15 ✓	46	140	"	" "
Disk. Box No 86 (Foster Wheeler Plant)	1	7/029	3 ✓	15	40	"	" "
S & F. Box No 87 (Machy. Space lighting)	1	7/064	15 ✓	46	150	"	" "
S & F. Box No 88 (" " ")	1	7/064	15 ✓	46	50	"	" "
Disk. Box No 89 (Workshop Motors)	1	7/064	36 ✓	46	144	"	" "
Disk. Box No 90 (Small Motors)	1	19/083	40 ✓	118	100	"	" "
Disk. Box No 91 (Small Motors)	1	37/064	60 ✓	130	176	"	" "
S & F. Box No 92 (Refrig. Machy. Space lighting)	1	7/064	10 ✓	46	112	"	" "
S & F. Box No 93 (Tunnel lighting)	1	7/064	15 ✓	46	80	"	" "
S & F. Panel (Engine Room Fan Panel)	1	37/103	184 ✓	240	150	"	" "
Radar	1	7/044	20 ✓	31	280	"	Lead Covered.

Port of

Continuation of Report No. 14714 dated 7/3/49

on the

DESCRIPTION.	No	B.H.P.	CONDUCTORS		MAX CURRENT		APPROX LENGTH LEAD PLUS RETURN FT.	INSULATED WITH.	HOW PROTECTED.
			NO. IN PARA/POLE	NO & DIA. OF STRANDS.	INCIRCUIT	RULE.			
Milk Emulsifier.	1	3	1	7/029.	13 ✓	15	136	V.I.R.	Hand Rubber.
Printing M/c.	1	2	1	3/036	9 ✓	10	212	"	"
Refrig Water cooler	3	3/4	1	3/029	3 ✓	5	80	"	"
Gold Cupboard.	2	1/2	1	3/029	2.8 ✓	5	30	"	"
S.A.R.S.	5	1/2	1	3/029	2.8 ✓	5	20	"	"
Glass Washers	2	1/8	1	3/029	1 ✓	5	20	"	"
Hydro Extractor.	1	3.5	1	7/036	16 ✓	24	64	"	"
Shirt & collar M/c.	1	1.0	1	3/029	5 ✓	5	74	"	"
Washing M/c.	1	2.0	1	3/036	9 ✓	10	40	"	"
Washing M/c.	1	1.5	1	3/036	7.5 ✓	10	40	"	"
Decoudin Ironing M/c.	1	4.5	1	7/036	19.2 ✓	24	60	"	"
" " "	1	1.0	1	3/029	5 ✓	5	60	"	"
Drying Tumbler.	1	2.5	1	7/029	11.25 ✓	15	60	"	"
✓ Sprinkler Pump	1	56	1	37/103	211 ✓	240	428	"	"
✓ " Compressor	1	2	1	7/029	9 ✓	15	428	"	"
W.T. Door Motors.	2	—	1	7/064.	4.5/28 ✓	46	520	"	"
L.P. Motor.	1	1 3/4	1	3/036.	8 ✓	10	45	"	"
Revolving Doors.	2.	1/3	1	3/029.	1.6 ✓	5	48	"	"



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MAIN DISTRIBUTION CABLES.

DESCRIPTION.	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.			
ALL SWITCHBOARDS AND SECTION BOARDS ...							
Masterboard 'A' 2nd Pref. (2)	1	127.103	492	595	500	V.I.R.	Hard Rubber
" 'B' " " "	1	127.103	350	595	120	"	" "
" 'C' " " "	1	61.093	259	288	450	"	" "
" 'D' " " "	1	91.103	314	461	840	"	" "
" 'D' 1st. Pref.	1	91.103	320	461	840	"	" "
" 'E' 2nd. Pref. (2)	2	91.103	810	922	690	"	" "
" 'F' " " "	2	91.103	688	922	360	"	" "
" 'F' 1st. Pref.	1	91.103	360	461	360	"	" "
" 'G' " " "	1	19.083	48	118	600	"	" "
" 'G' 2nd. Pref. (2)	1	61.103	300	332	600	"	" "
" 'H' " " (1)	3	127.093	1340	1536	600	"	" "
" 'H' " " (1)	3	127.093	1187	1536	600	"	" "
" 'H' 1st. Pref.	1	127.103	405	595	240	"	" "

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS ...	1	19.044	30	53	100	V.I.R.	Lead covered.
NAVIGATION LIGHTS S & F Box No. 1	1	37.064	40	130	756	"	"
LIGHTING AND HEATING S & F Box No. 2	1	37.064	37	130	756	"	"
S & F Box No. 3 (Passenger Ltg)	1	7.064	30	46	400	"	Hard Rubber.
Dist. Box No. 3A (Tunnel Flood Lighting)	1	7.044	18	31	128	"	"
Dist. Box No. 4 (Heating)	1	19.072	35	97	292	"	"
Dist. Box No. 5 (Heating)	1	19.072	45	97	168	"	"
" " " 6 (Service Lighting)	1	7.036	10	24	168	"	"
" " " 7 (Heating)	1	19.072	73	97	112	"	"
S & F Box No. 8 (Passenger Ltg)	1	7.064	30	46	292	"	"
Dist. Box No. 9 (Service Lighting)	1	7.052	10	37	224	"	"
Dist. Box No. 10 (Heating)	1	19.064	65	83	300	"	"
Dist. Box No. 11 (Service Lighting)	1	7.052	10	37	192	"	"
Dist. Box No. 12 (Service Lighting)	1	7.052	10	37	192	"	"
Dist. Box No. 13 (Heating)	1	19.072	73	97	200	"	"
Dist. Box No. 14 (Heating)	1	19.064	41	83	200	"	"
Dist. Box No. 15 (Heating)	1	19.064	40	83	100	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Induced Draught Fans	2	134	1	61.103	300	540	570	V.C. Lead covered
Forced Draught Fans	2	71	1	37.083	264	296	480	V.C. " "
Main Circulating Pumps	4	82	1	37.093	195	214	300	V.I.R. Hard Rubber
Sanitary Pumps	2	44	1	37.083	166	184	240	" " "
Bilge Pumps	2	44	1	37.083	166	184	150	" " "
S.W. Circ. Pumps	2	44	1	37.083	166	184	180	" " "
Soot Collectors	2	29	1	37.064	110	130	270	" " "
Lub. Oil Pumps	2	28	1	37.064	107	130	180	" " "
Boiler Oil Fuel Transfer Pumps	2	22	1	19.072	85	97	360	" " "
Ballast Pump	1	21	1	19.072	81	97	330	" " "
Turning Motors	2	15	1	19.052	60	64	180	" " "
Water Extraction Pumps	4	18	1	19.064	72	83	300	" " "
S.F. Pressure Pumps	2	14	1	19.052	56	64	390	" " "
Domestic F.W. Pumps	1	9	1	7.064	36	46	210	" " "
S.W. Circ. Pump Diesel gens	1	11	1	19.044	44	53	150	" " "
F.W. Circ. Pump " "	1	5 1/2	1	7.044	22	31	240	" " "
F.W. Transfer Pump	1	8	1	7.052	32	37	300	" " "
Air Compressor	1	7 1/2	1	7.052	30	37	180	" " "
Oil Purifiers	3	2 1/2	1	7.029	11	15	42	" " "
Diesel O.F. Transfer Pump	1	2 1/2	1	7.029	11	15	36	" " "
Diesel gens Naptha extraction fan	2	1.4	1	3.036	5.6	10	80	" " "
Evaporator Feed Pump	2	2 1/2	1	7.029	11	15	48	" " "
Aux. Circ. Pump	1	5	1	7.036	21	24	56	" " "
Distiller & Circ. Pump	1	4 1/2	1	7.036	19	24	24	" " "
Boiler Blowers	2	3	1	7.029	13	15	44	" " "
Grinder	1	2	1	3.036	9	10	10	" " "
Drill	1	1 1/2	1	3.036	7	10	20	" " "
Lathe	1	1 1/2	1	3.036	7	10	36	" " "
Emerg. Bilge Pump	1	40	1	37.083	150	184	428	" " "

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.

Electrical Engineers.

Date



COMPASSES.

Minimum distance between electric generators or motors and standard compass 27 feet 3 inches

Minimum distance between electric generators or motors and steering compass 26 feet

The nearest cables to the compasses are as follows:—

A cable carrying .12 Ampères ON ~~8~~ feet from steering compass.

A cable carrying .12 Ampères 8 feet from standard compass ON ~~feet from~~ steering compass.

A cable carrying .7 Ampères 4 feet from standard compass 4 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power Yes

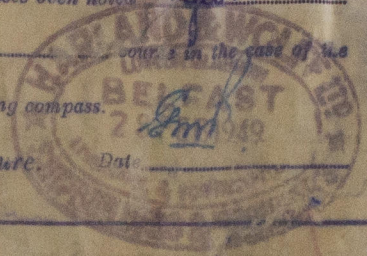
Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted Yes

The maximum deviation due to electric currents was found to be no degrees on Any course in the case of the steering compass.

standard compass, and no degrees on Any

Builder's Signature

Date



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

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 fitted on board under special survey, tested, and seen running under full working conditions. Materials and workmanship are good.

Notes sent 13/4/49

Total Capacity of Generators 2220 Kilowatts.

The amount of Fee BEL £116/8/11 BHM £14/11 LON £14/11 145: 10

When applied for,

7/3/1949

Travelling Expenses (if any) £

When received,

10

R. I. Lucehison & M. Russell

Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned See F.E. nuchy opt