

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

19 MAR 1928

Date of writing Report 19 When handed in at Local Office Mar 14 1928 Port of Trieste Received at London Office.....

No. in Survey held at Trieste Date, First Survey 6 Aug 1927 Last Survey 24 Feb 1928
 Reg. Book. (Number of Visits...19.....)

40225 on the "CONTE GRANDE" Tons { Gross 25661
 Net 15303

Built at Trieste By whom built Stabilmanti Tecnica Yard No. 464 When built 1928

Owners Lloyd Sabauda Port belonging to Genoa

Electric Light Installation fitted by Stabilmanti Tecnica Contract No. When fitted 1928

System of Distribution Two wire insulated - Ring main situated in engine & boiler space.

Pressure of supply for Lighting 110 volts, Heating 110 volts, Power 110 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 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 Yes., is an adjustable regulating resistance fitted in 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.

Position of Generators Machinery space atop main engine room., are the lubricating arrangements of the generators as per Rule Yes.

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 ✓

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 No main switchboard. There is a control switchboard near generators with distant control of circuit breakers on branches from ring main.

If the generators and RING MAIN 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 No. Circuit breakers with overload trip near generator

DISTRIBUTION 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 Marble, 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 On each set of generator main - a double pole circuit breaker with overload & reverse current trips and interlocked equalizing switch.

On each outgoing circuit from ring main - a circuit breaker with distant & local control & overload and no voltage trips

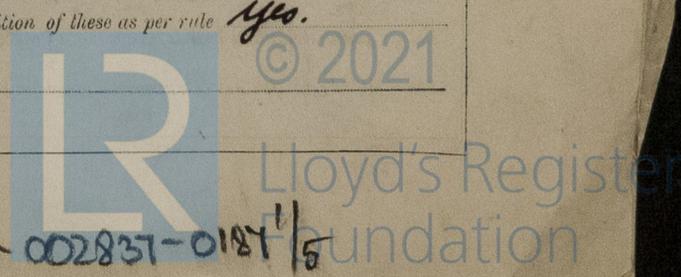
Instruments on CONTROL switchboard 4 ammeters 5 voltmeters ✓ synchronising device for paralleling purposes.

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

will change over switch will be provided attached to various parts of ring main. Yes.

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.



Cables: Single, twin, concentric, or multicore all 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 4-5 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 None

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 Large cables are armoured & lead covered and supported by galvanised iron clips suitably spaced.

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 Yes.

Joints in Cables, state if any, and how made, insulated, and protected made by means of clamped sleeves in watertight 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 1 cable 1.5mm² copper, through change over switch and milliammeter to main section of ring main.

are their connections made as per Rule

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 Situated on E deck immediately above main engine room casing. Emergency supply switchboard with change over switch to ring main and emergency generator. Generator driven by petrol paraffin engine.

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. 1 battery from nickel for telephones

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 None

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected None

how are the cables led

where are the controlling switches situated ✓

Searchlight Lamps, No. of None, whether fixed or portable, are their fittings as per Rule

Arc Lamps, other than searchlight lamps, No. of None, are their live parts insulated from the frame or case ✓, are their fittings as per Rule ✓

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 Yes in most cases.

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 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 ✓

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	3	200	110	1870	950	Steam Turbine		
AUXILIARY	1							
EMERGENCY	2	35	110	320	500	Gasoline w. com. eng.	petrol paraffin	
ROTARY TRANSFORMER	2	1	25	40	1800			

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. MM.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) METRES.	Insulated with	HOW PROTECTED.	
				No.	Diameter.					
	MAIN GENERATOR...	3	82700	127	2.63	1820	68	India Rubber	Lead, steel wire braiding	
	EQUALISER CONNECTIONS	1	400				15	do	do	
	RING MAIN	AFT-3x670 (127 x 2.6)					FORW=2x485 (91 x 2.6)	X Conn. 3x670		
	EMERGENCY GENERATOR	1	324	61	2.6	320	20	India Rubber	Lead, steel wire braiding	
	EQUALISERS	1	161	37	2.35		10	do	do	
	ROTARY TRANSFORMER	2	3.5	1	1.8	16.3	50	do	do	
	ENGINE ROOM	2	7.3	7	1.3	53	40	do	do	
	BOILER ROOM	2	4.5	7	0.9	14	25	do	do	
	ACCOMMODATION	2	4.5	7	0.9	14	12	do	do	
	Terminal cables in A1234, B4, E2345 G									
	K25 L1245 S123	2	1.5	1	1.4	6	80 max	do	do	
	B23, C2 E, G2, K3L3	2	2.5	1	1.8	14	14	do	do	
	G 567 K14.	2	4.5	7	0.9	20	12	do	do	
	See description of main Distribution Boards.									
	There are twenty branches from the Ring main, which pass through circuit breakers with distance and local control, and supply 20 distribution boards. The distance is effected from the control switchboard situated near the generators.									
	WIRELESS	2	14.5	7	1.6	32	200	India Rubber	Lead, steel wire braiding	
	SEARCHLIGHT	1								
	MASTHEAD LIGHT	2	2.5	1	1.8	1.6	250	do	do	
	SIDE LIGHTS	2	2.5	1	1.8	1.6	36	do	do	
	COMPASS LIGHTS	2	2.5	1	1.8	1.6	12	do	do	
	POOP LIGHTS	2	2.5	1	1.8	1.6	290	do	do	
	CARGO LIGHTS	1	14.5	7	1.6	40	50	do	do	
	ARC LAMPS	1								
	HEATERS	2	4.5	7	0.9	9	10	do	do	

MOTOR CONDUCTORS. BRANCHES FROM RING MAIN.

Ref. No.	DESCRIPTION.	No. of CONDUCTORS.	Effective Area of each Conductor. Sq. MM.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) METRES.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	TO CIRCUIT BREAKER A.	1	670	127	2.6	600	90	India Rubber	Lead, steel wire braiding
	B	1	670	127	2.6	600	36	do	do
	C	1	670	127	2.6	600	80	do	do
	D	1	322	61	2.6	444	12	do	do
	E	1	670	127	2.6	600	70	do	do
	F	1	322	61	2.6	444	12	do	do
	G	1	670	127	2.6	600	56	do	do
	H	1	670	127	2.6	228	12	do	do
	J	1	670	127	2.6	228	12	do	do
	K	1	670	127	2.6	600	36	do	do
	L	1	670	127	2.6	600	140	do	do
	M	1	670	127	2.6	240	60	do	do
	N	1	670	127	2.6	240	60	do	do
	O	1	670	127	2.6	240	60	do	do
	P	1	670	127	2.6	240	60	do	do
	Q	1	670	127	2.6	322	12	do	do
	S	1	322	61	2.6	300	40	do	do
	R	1	670	127	2.6	322	12	do	do
	U	1	670	127	2.6	345	60	do	do
	TO EMERGENCY SWITCHES	3	670	127	2.6	1800	30	do	do

MOTOR CONDUCTORS. (MACHINERY)

	EMERGENCY OIL PUMP	1	195	37	2.6	240	80	do	do
	ENGINE TURNING GEAR 2 nd No.	1	161	37	2.35	300	25	do	do
	BOAT WINCHES 8 th No	1	77	37	1.6	120	30	do	do
	ROVER'S STEERING GEAR (ELECTROHYDRAULIC)	1	322	61	2.6	320	180	do	do
	WORKSHOP MOTORS	1	48.5	19	1.85	88	40	do	do



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.

Luigi Maspius Monteggi. Electrical Engineers. Date 5-3-28-

COMPASSES.

Distance between electric generators ~~on motor~~ and standard compass 115m
 Distance between electric generators ~~on motor~~ and steering compass 110m
 The nearest cables to the compasses are as follows:—
 A cable carrying .5 Ampères 3 feet from standard compass 4 feet from steering compass. } non inductive circuits.
 A cable carrying ✓ Ampères ✓ 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.
 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 zero degrees on ✓ course in the case of the standard compass, and zero degrees on ✓ course in the case of the steering compass.

Stabilimento Tecnico Triestino
V. Lockrey Builder's Signature. Date 5-3-28-

Is this installation a duplicate of a previous case If so, state name of vessel *States similar to Conte Biancamano*

General Remarks (State quality of workmanship, opinions as to class, etc.)
The electric installation of this vessel has been fitted on board in accordance with the requirements of the Rules and approved plans. The generators were tested in the shops before being placed on board and on completion, the whole installation was tested under full working conditions with satisfactory results.

Wireless fitted

Elec light
2/3/28
V. Lockrey

Total Capacity of Generators 670 Kilowatts.

The amount of Fee ... *Low 4463.* When applied for, 15/3/28
 Travelling Expenses (if any) £ *2.5.28* When received, 2/3/28

Committee's Minute TUES. 3 APR 1928
 Assigned *Elec light*

DISTRIBUTION BOARD	No. OF CONDUCTORS	EMERGENCY AREA (SEE CONDUCTOR MARKS)	COMPOSITION OF STRAND		TOTAL MAX CURRENT AMPS.	APPROX. LENGTH METRES.	INSULATED WITH.	HOW PROTECTED.
			No.	DIAM.				
MAIN DISTRIBUTION BOARDS (A. B. C. E. G. K. L. S.)								
1	2	2.5	1	1.8	4.5 ✓	20	India-Rubber	Lead, steel wire, braiding
2	1	25	19	1.3	36 ✓	10	do	do
3	2	9.8	7	1.3	34 ✓	10	do	do
4	1	38.7	19	1.6	68 ✓	50	do	do
5	1	25	19	1.3	60 ✓	14	do	do
6	2	9.3	7	1.3	31 ✓	20	do	do
7	2	4.5	7	0.9	15 ✓	44	do	do
9	1	25	19	1.3	56 ✓	30	do	do
10	1	25	19	1.3	56 ✓	30	do	do
11	2	4.5	7	0.9	12 ✓	44	do	do
12	1	38	19	1.6	76 ✓	60	do	do
13	2	4.5	7	0.9	20 ✓	40	do	do
14	2	6.4	7	1.1	28 ✓	60	do	do
15	2	4.5	7	0.9	4 ✓	44	do	do
16	1	65	19	2.1	108 ✓	86	do	do
17	1	25	19	1.3	56 ✓	86	do	Lead, steel wire net.
18	1	65	19	2.1	108 ✓	86	do	do
19	1	65	19	2.1	108 ✓	86	do	do
20	1	25	19	1.3	56 ✓	94	do	Lead, steel wire braiding
8	2	4.5	7	0.9	15 ✓	14	do	do
DISTRIBUTION BOARD B								
1	2	6.7	7	1.1	5 ✓	80	do	Lead, steel wire, braiding
2	1	25	19	1.3	54 ✓	20	do	Lead, steel wire net.
3	1	38.5	19	1.6	70 ✓	30	do	do
4	1	65	19	2.1	90 ✓	80	do	do
5	2	14.5	7	1.6	35 ✓	30	do	do
6	1	48.5	19	1.85	75 ✓	50	do	do
7	2	6.7	7	1.1	20 ✓	20	do	do
8	2	4.5	7	0.9	12 ✓	44	do	Lead, steel wire braiding
9	2	4.5	7	0.9	14 ✓	20	do	Lead, steel wire net.
10	1	25	19	1.3	64 ✓	12	do	Lead, steel wire, braiding
11	2	9.3	7	1.3	31 ✓	25	do	do
12	2	6.4	7	1.1	28 ✓	25	do	do
13	2	6.4	7	1.1	28 ✓	25	do	do
14	2	9.3	7	1.3	31 ✓	35	do	do
15	2	9.3	7	1.3	30 ✓	25	do	Lead, steel wire net.
16	2	9.3	7	1.3	20 ✓	25	do	do
17	1	65	19	2.1	108 ✓	30	do	do
18	1	65	19	2.1	108 ✓	20	do	do
19	1	65	19	2.1	108 ✓	20	do	do

NORMAL LIGHT
 PORT SERVICE LIGHT
 POWER CIRCUITS
 EMERGENCY LIGHT
 NORMAL LIGHT
 PORT SERVICE LIGHT
 EMERGENCY LIGHT
 POWER CIRCUITS

No. of CONDUCTORS	EFFECTIVE AREA EACH CONDUCTOR MM ²	COMPOSITION OF STRAND.		TOTAL MAX. CURRENT AMPS.	APPROX. LENGTH LEAD RETURN METRES.	INSULATED WITH.	HOW PROTECTED.
		No.	DIAM.				
DISTRIBUTION BOARD C.							
1	38.5	19	1.6	48 ✓	10	India Rubber	Lead steel wire net.
2	48.5	19	1.85	81 ✓	60	do	do.
3	4.5	7	0.9	13 ✓	60	do	Lead steel wire braiding.
4	14.5	7	1.6	40 ✓	74	do	do.
5	4.5	7	0.9	20 ✓	10	do	do.
6	14.5	7	1.6	44 ✓	74	do	do.
7	14.5	7	1.6	40 ✓	90	do	do.
8	38.5	19	1.6	80 ✓	80	do	do.
9	38.5	19	1.6	80 ✓	80	do	do.
10	25	19	1.3	55 ✓	80	do	do.
11	25	19	1.3	55 ✓	80	do	do.
12	14.5	7	1.6	44 ✓	60	do	do.
13	4.5	7	0.9	12 ✓	38	do	do.
14	64	19	2.1	108 ✓	38	do	Lead steel wire net.
15	25	19	1.3	55 ✓	38	do	do.
16	64	19	2.1	108 ✓	38	do	do.
17	14.5	7	1.6	36 ✓	16	do	Lead steel wire braiding.
18	64	19	2.1	110 ✓	10	do	Lead steel wire net.
DISTRIBUTION BOARD E							
1	38.5	19	1.6	48 ✓	50	do	Lead steel wire net.
2	2.5	1	1.8	14 ✓	45	do	Lead steel wire braiding.
3	48.5	19	1.85	80 ✓	40	do	Lead steel wire net.
4	25	19	1.3	50 ✓	10	do	Lead steel wire braiding.
5	48.5	19	1.85	85 ✓	60	do	Lead steel wire net.
6	38.5	19	1.6	75 ✓	40	do	do.
7	4.5	7	0.9	13 ✓	40	do	Lead steel wire braiding.
8	9.3	7	1.3	30 ✓	24	do	do.
9	9.3	7	1.3	30 ✓	10	do	Lead steel wire net.
10	4.5	7	0.9	12 ✓	50	do	Lead steel wire braiding.
11	2.5	1	1.8	8 ✓	16	do	do.
12	25	19	1.3	38 ✓	10	do	do.
13	25	19	1.3	54 ✓	60	do	do.
14	14.5	7	1.6	36 ✓	60	do	do.
15	25	19	1.3	56 ✓	80	do	do.
16	4.5	7	0.9	16 ✓	60	do	do.
17	14.5	7	1.6	40 ✓	80	do	do.
18	25	19	1.3	56 ✓	80	do	do.
19	65	19	2.1	108 ✓	70	do	Lead steel wire net.
20	14.5	7	1.6	35 ✓	70	do	do.
21	65	19	2.1	108 ✓	70	do	do.

No. of CONDUCTORS	EFFECTIVE AREA EACH CONDUCTOR MM ²	COMPOSITION OF STRAND.		TOTAL MAX. CURRENT AMPS.	APPROX. LENGTH LEAD RETURN METRES.	INSULATED WITH.	HOW PROTECTED.
		No.	DIAM.				
DISTRIBUTION BOARD G.							
1	4.5	7	0.9	16 ✓	60	India Rubber	Lead steel wire braiding.
2	48.5	19	1.85	84 ✓	40	do	Lead steel wire net.
3	65	19	2.1	100 ✓	40	do	do.
4	48.5	19	1.85	93 ✓	36	do	Lead steel wire net.
5	38.5	19	1.6	70 ✓	26	do	do.
6	38.5	19	1.6	70 ✓	26	do	do.
7	38.5	19	1.6	75 ✓	20	do	do.
8	48.5	19	1.85	80 ✓	60	do	do.
9	48.5	19	1.85	85 ✓	66	do	do.
10	6.4	7	1.1	25 ✓	10	do	do.
11	9.3	7	1.3	33 ✓	30	do	Lead steel wire braiding.
12	14.5	7	1.6	40 ✓	10	do	Lead steel wire net.
13	2.5	1	1.8	9 ✓	10	do	do.
14	38.5	19	1.6	64 ✓	15	do	Lead steel wire braiding.
15	38.5	19	1.6	73 ✓	60	do	do.
16	38.5	19	1.6	66 ✓	50	do	do.
17	38.5	19	1.6	72 ✓	50	do	do.
18	25	19	1.3	50 ✓	50	do	do.
19	64	19	2.1	110 ✓	25	do	Lead steel wire net.
20	38.5	19	1.6	80 ✓	20	do	do.
21	38.5	19	1.6	54 ✓	30	do	do.
DISTRIBUTION BOARD K.							
1	48.5	19	1.85	84 ✓	35	do	Lead steel wire net.
2	2.5	1	1.8	14 ✓	10	do	Lead steel wire braiding.
3	38.5	19	1.6	70 ✓	25	do	Lead steel wire net.
4	38.5	19	1.6	70 ✓	25	do	do.
5	25	19	1.3	44 ✓	50	do	do.
6	25	19	1.3	50 ✓	12	do	Lead steel wire braiding.
7	14.5	7	1.6	40 ✓	30	do	Lead steel wire net.
8	6.3	7	1.1	24 ✓	12	do	do.
9	4.5	7	0.9	16 ✓	44	do	Lead steel wire braiding.
10	6.4	7	1.1	25 ✓	50	do	Lead steel wire net.
11	4.5	7	0.9	13 ✓	12	do	do.
12	64	19	2.1	95 ✓	20	do	do.
13	38.5	19	1.6	51 ✓	20	do	do.
14	64	19	2.1	95 ✓	20	do	do.
15	9.3	7	1.3	30 ✓	26	do	Lead steel wire braiding.
16	9.3	7	1.3	30 ✓	40	do	do.
17	25	19	1.3	55 ✓	40	do	do.
18	38.5	19	1.6	78 ✓	40	do	do.
19	38.5	19	1.6	78 ✓	44	do	do.
20	25	19	1.3	55 ✓	36	do	do.
21	9.3	7	1.3	30 ✓	36	do	do.

PORT SERVICE LIGHT

POWER CIRCUITS

NORMAL LIGHT

EMERGENCY LIGHT

POWER CIRCUITS

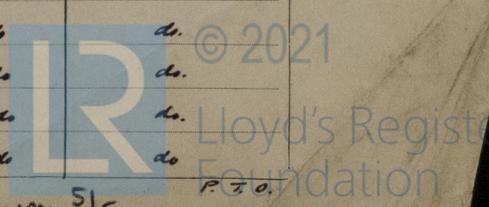
EMERGENCY POWER SERVICE
 EMERGENCY, NORMAL LIGHT
 POWER CIRCUITS

	No. of CONDUCTORS	EFFECTIVE AREA EACH CONDUCTOR MM ²	COMPOSITION OF STRAND. No.	DIAM.	TOTAL MAX. CURRENT AMPS.	APPROX. LENGTH LEAD RETURN METRES.	INSULATED WITH.	HOW PROTECTED.
DISTRIBUTION BOARD L								
1. Est. lights deck C.B.	2	25	1	1.8	14 ✓	40	India Rubber.	Lead, steel wire braid
2. Dining Room II. ll. con.	2	14.5	4	1.6	35 ✓	24	do	Lead steel wire net
3. Cabin II. ll. con.	2	14.5	4	1.6	40 ✓	16	do	do.
4. Music Room II. ll.	1	25	19	1.3	58 ✓	30	do	do.
5. Washes Quarters.	2	2.5	1	1.8	10 ✓	20	do	do.
6. II. ll. con. Deck D. &.	1	25	19	1.3	47 ✓	10	do	Lead, steel wire, braid
7. Hatchway to 4.	2	9.3	7	1.3	30 ✓	26	do	do.
8. II. ll. con. Deck B &.	2	6.4	7	1.1	25 ✓	10	do	do.
9. Fans II. ll. and F. &.	1	38.5	19	1.6	44 ✓	26	do	Lead, steel wire net.
10. Coffee machine II. ll.	2	9.3	4	1.3	30 ✓	10	do	Lead, steel wire, braid
11. Fan motor	2	6.4	4	1.1	22 ✓	36	do	do.
12. Thermostat motor.	2	14.5	4	1.6	36 ✓	40	do	do.
13. Plate smoke II. ll.	2	6.4	4	1.1	24 ✓	20	do	do.
14. Laundry	2	9.3	7	1.3	30 ✓	40	do	do.
15. Coffee machine II. ll.	2	9.3	4	1.3	30 ✓	50	do	do.
16. Printing machine	2	4.5	4	0.9	12 ✓	40	do	do.
17. Fan motors.	2	9.3	7	1.3	32 ✓	46	do	do.
18. Fan motor.	2	14.5	4	1.6	40 ✓	46	do	do.
19. Thermostat motor.	2	14.5	4	1.6	36 ✓	20	do	do.
20. Baggage lift.	2	14.5	4	1.6	44 ✓	30	do	do.
DISTRIBUTION BOARD S.								
1. Stair lights for swimming tank	1	25	16	1.38	45 ✓	32	do	Lead, steel wire net
2. do.	1	25	16	1.38	45 ✓	32	do	do.
3. Normal light & stairway	1	48.5	19	1.85	85 ✓	32	do	do.
4. Swimming tank and stairway	2	4.5	4	0.9	10 ✓	32	do	do.
5. Camel	2	4.5	4	0.9	8 ✓	40	do	Lead, steel wire, braid
6. Horse	2	4.5	4	0.9	8 ✓	40	do	do.
7. Swimming tank pump.	2	9.3	4	1.3	32 ✓	50	do	do.
8. Lift.	1	38.5	19	1.6	60 ✓	40	do	do.
9. Fan motor.	1	65	19	2.1	100 ✓	35	do	do.

FOR SUB-DISTRIBUTION BOARDS CONNECTED DIRECT TO RING MAIN,
AND EMERGENCY SWITCHBOARD, - SEE FOLLOWING SHEET.

SUB-DISTRIBUTION BOARDS CONNECTED DIRECT TO RING MAIN.								
	No. of CONDUCTORS	EFFECTIVE AREA EACH CONDUCTOR MM ²	COMPOSITION OF STRAND. No.	DIAM.	TOTAL MAX. CURRENT AMPS.	APPROX. LENGTH LEAD RETURN METRES.	INSULATED WITH.	HOW PROTECTED.
SUB. DIST. BOARD D								
1. Fan motor.	2	6.7	4	1.1	20 ✓	40	India Rubber.	Lead, steel wire, braid
2. Oil fuel pump.	2	2.5	1	1.8	10 ✓	15	do	do.
3. Boiler lights, fwd.	2	4.5	4	0.9	14 ✓	12	do	do.
SUB. DIST. BOARD E								
1. Fan motor.	2	6.7	4	1.1	20 ✓	40	do	do.
2. Oil fuel pump.	2	2.5	1	1.8	10 ✓	15	do	do.
3. Boiler lights, aft.	2	4.5	4	0.9	4.5 ✓	12	do	do.
SUB. DIST. BOARD H								
1. Turning gear	1	161	37	2.35	200 ✓	25	do	do.
2. Oil separator.	2	2.5	1	1.8	3.2 ✓	40	do	do.
3. Engine room lights	2	6.7	4	1.1	25 ✓	16	do	do.
SUB. DIST. BOARD J								
1. Turning gear.	1	161	37	2.35	200 ✓	25	do	do.
2. Oil separator.	2	2.5	1	1.8	3.2 ✓	40	do	do.
3. Engine room lights	2	6.7	4	1.1	25 ✓	16	do	do.
SUB. DIST. BOARD Q								
1. Fan.	1	129	37	2.1	160 ✓	60	do	do.
2. Motor generator.	2	2.5	1	1.8	12 ✓	50	do	do.
3. Fan.	1	129	37	2.1	160 ✓	60	do	do.
4. Dynamo fan.	1	64.5	19	2.1	100 ✓	60	do	do.
SUB. DIST. BOARD R								
1. Fan.	1	129	37	2.1	160 ✓	60	do	do.
2. Motor generator.	2	2.5	1	1.8	12 ✓	50	do	do.
3. Fan	1	129	37	2.1	160 ✓	60	do	do.
4. Dynamo fan	2	64.5	7	1.6	36 ✓	60	do	do.
SUB. DIST. BOARD M								
1. Boat winch	1	77.5	37	1.6	120 ✓	30	do	do.
2. Boat winch	1	77.5	37	1.6	120 ✓	30	do	do.
SUB. DIST. BOARDS N. O. AND P. AS M.								
SUB. DIST. BOARD U								
1. Oven.	1	387	91	2.35	345 ✓		do	do.
EMERGENCY SWITCHBOARD								
1. Main Dist. Board. A.	1	94	37	1.85	105 ✓	200	do	do.
2. ————— B.	1	44	37	1.6	98 ✓	160	do	do.
3. ————— C	1	38.5	19	1.6	53 ✓	100	do	do.
4. ————— E	1	38.5	19	1.6	43 ✓	46	do	do.
5. ————— G.	1	38.5	19	1.6	58 ✓	40	do	do.
6. ————— L	1	48.5	19	1.85	77 ✓	140	do	do.
7. ————— K.	1	64	19	2.1	114 ✓	40	do	do.
8. ————— Q.E.S.A.	1	94	37	1.85	130 ✓	40	do	do.
9. ————— K.L.	1	48.5	19	1.85	80 ✓	40	do	do.

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EMERGENCY SWITCHBOARD CONT ^d								
	No. of CONDUCTORS	EFFECTIVE AREA EACH COND ^d MM ²	COMPOSITION OF STRAND No.	DIAM.	TOTAL MAX. CURRENT AMPS.	APPROX. LENGTH LEAD RETURN METRES.	INSULATED WITH.	HOW PROTECTED.
10. Lights for shifting shaft	2	14.5	7	1.6	36 ✓	20	India Rubber.	Lead, steel wire, braiding
11. Navigation lights.	2	6.7	7	1.1	5 ✓	220	do	do.
12. Lookalike buttons.	1	48.5	19	1.85	88 ✓	40	do	do.
13. 2o Syn. compasses.	2	6.7	7	1.1	10 ✓	40	do	do.
14. Emergency table pump.	1	19.5	37	2.6	240 ✓	80	do	do.
15. Wireless	2	14.5	7	1.6	32 ✓	200	do	do.
16. Drinking water pump.	1	35.5	19	1.6	64 ✓	60	do	do.
17. Steering gear (Reo)	1	322	61	2.6	320 ✓	180	do	do.



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