

current protection devices been tested under working conditions **Yes** Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule **Yes** **Approved**
Single and twin on high pressure, multicore on telephones. **Wartime**
Cables: Single, twin, concentric, or multicore **7** are the cables insulated and protected as per Tables IV, V, X or XI of the Rule **Wartime**
 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 **5.5** **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 **-**, 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** **Lead Covered & Conduit** Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit **& Conduit**
Support and Protection of Cables, state how the cables are supported and protected **Clipped to woodwork in accommodation by brass or galvanized steel clips spaced as per rule and run in wood casings, elsewhere run in conduit, all cables protected by metal guards where liable to damage.**
 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 **- - -** 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 **None except at junction 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 and hardwood collars**
Earthing Connections, state what earthing connections are fitted and their respective sectional areas **Lead covered cables, conduit and metal trays effectively earthed.**
 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 **12 in number 4.5 volt hult emergency hand lamp fitted throughout the vessel.**
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 **Wheelhouse**
 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 **Cast Metal Guards.**
 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, in magazines. Russell Stoll No.4521 explosion proof fittings.** how are the cables led **Cables run in conduit**
 where are the controlling switches situated **Outside Compartments**
 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 **None**, are air heaters constructed and fitted as per Rule **None**
Searchlight Lamps, No. of **1-12"-1000 watt metal filament lamp. Spigot on either side of flying bridge** whether fixed or portable **Yes** 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 **-**
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 **Where possible**, 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 **Drip proof**
 if not of this type, state distance of the combustible material horizontally or vertically above the motors **- - -** and **- - -**
 have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing **Under 100 Control Gear and Resistances**, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule **Yes** **B.H.P.** **Lightning Conductors**, where lightning conductors are required, are these fitted as per Rule **Heavy derricks and telescopic mast bonded to deck** 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 **- - -** are all fuses of the filled cartridge type **- - -** are they of an approved type **- - -**
 If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office **- - -**
Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule **Yes**

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	3	15	110	136	575	Steam Reciprocating	- - -	- - -
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

DESCRIPTION.	No. per Pole.	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.			
MAIN GENERATOR	1	1	.166	19	.105	136	162	25	Rubber	In Conduit
EQUALISER CONNECTIONS	1	1	.166	19	.105	-	162	15	"	"
AUXILIARY GENERATOR										
Final Distribution Circuits Mostly					.024				Insulated with either rubber or synthetic resin lead covered or in conduit.	
ROTARY TRANSFORMER/ MOTOR										
ENGINE ROOM	1	1	.052	7	.097	47.5	75	40	Rubber	In Conduit
BOILER ROOM										
AUXILIARY SWITCHBOARDS	1	1	.008	7	.038	20	27	6	"	Switchboard
Refrigerator	1	1	.082	19	.074	75	166	200	Varnished Cambric	Lead Covered in Conduit
Degaussing Panel	1	1	.166	19	.105	65	262	30	Varnished Cambric	Lead Covered in Conduit
Power Panel	P1	1	.032	7	.077	33	55	40	Rubber	Lead Covered in Conduit
Accomm. Crew	L9	1	.052	7	.097	37	122	450	Varnished Cambric	Lead Covered in Conduit
" Aft. Deck House	L10	1	.082	19	.074	35.5	166	500	"	"
Engrs. House Star	L2	1	.052	7	.097	39	122	100	"	"
" " " Port	L3	1	.052	7	.097	34	122	200	"	"
" Saloon House	L4	1	.052	7	.097	42.5	122	300	"	"
" Capt. House	L5	1	.032	7	.077	26.5	55	350	Synthetic Resin	"
Navigation	L6	1	.032	7	.077	21	55	450	"	"
WIRELESS	1	1	.052	7	.097	30	122	400	Varnished Cambric	Lead Covered in Conduit
SEARCHLIGHT	1	1	.008	7	.038	10	27	450	Synthetic Resin	"
MASTHEAD LIGHT	1	1	.003	7	.024	.5	10	358	"	"
SIDE LIGHTS	1	1	.003	7	.024	.5	10	74	"	Lead Covered
SS LIGHTS	1	1	.003	7	.024	.3	10	22	"	"
FOOP LIGHTS										
CARGO LIGHTS Forward	L7	1	.052	7	.097	24.8	122	450	Varnished Cambric	Lead Covered in Conduit
" Aft.	L8	1	.032	7	.077	24.4	55	300	Synthetic Resin	"
Gyro Compass		1	.032	7	.077	10	55	400	"	"

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.			
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	1	1	.005	7	.030	6.5	16	12	Rubber	In Conduit
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										
Eng. Room / VENTILATING FANS	1	1	.005	7	.030	6.5	16	100	Rubber	In Conduit

These synthetic resin insulated cables (feeders from main switchboard) had to be installed in the machinery space due to the non-availability of rubber insulated cables.

All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

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

The foregoing is a correct description.

Burrard Dry Dock Company, Limited

Electrical Engineers.

Date 14th Feb. 1944

C. J. W. W. W.
President

COMPASSES.

Distance between electric generators or motors and standard compass 19 feet (Wireless Alternator)

Distance between electric generators or motors and steering compass 16 " (" ")

The nearest cables to the compasses are as follows:—

A cable carrying .3 Ampères 9 inches from standard compass 9 inches from steering compass. (Compass Lights)

A cable carrying .3 Ampères 1'-4" from standard compass 1'-4" from steering compass. (Compass Correction Coils)

A cable carrying .3 Ampères 5 feet from standard compass 3 feet from steering compass. (Wheelhouse Light)

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 courses in the case of the standard compass, and Nil degrees on All course in the case of the steering compass.

Burrard Dry Dock Company, Limited

Builder's Signature

Date 14th Feb. 1944

C. J. W. W. W.
President

Is this installation a duplicate of a previous case Yes If so, state name of vessel S.S. "FORT COLUMBIA" (Vcr. Rpt. No. 5942)

General Remarks (State quality of workmanship, opinions as to class, &c. The electrical equipment of this ship has been installed under Special Survey in accordance with the approved plans, New York and Society's Rules. The material and workmanship are good and special attention has been given to the installation of synthetic resin insulated cables, and in the machinery spaces they are kept at least 1" clear of all steel work to allow for air circulation. The installation has been examined under full working conditions, tested as per Rule and found satisfactory, and in our opinion is eligible to have the Society's Classification without Special Notation. Copies of particulars of ships trials on generators attached. Maker's Certificates covering steam auxiliary engines (driving generators) and generators attached. As fitted plan of electrical wiring attached. The electrical equipment has also been surveyed during construction and installation on behalf of Wartime Shipbuilding Ltd., to ensure that the terms of the specification have been fully complied with and this work has been satisfactorily carried out.

Noted

Run

24. 4. 44

Total Capacity of Generators 45 Kilowatts.

The amount of Fee ... \$125.00

When applied for, 11th Feb 44

Travelling Expenses (if any) \$10.00

When received. 19

W. G. Donald
Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURS 27 APR 1944

Assigned

See fe machs, etc.