

current protection devices been tested under working conditions. **Not fitted** 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 **Single & Multicore** are the cables insulated and protected as per Tables IV, V, X or XI 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 **2.5 volts**

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. **--** Cable Rums, 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 in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit. **Lead covered & conduit.**

Support and Protection of Cables, state how the cables are supported and protected. **Clipped to woodwork in accommodation by brass clips spaced as per Rule & 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. **--**

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. **Not fitted**

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. **--**

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 around fittings**

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected. **No**

how are the cables led **--**

where are the controlling switches situated **--**

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

Heating and Cooking Appliances, are they constructed and fitted as per Rule. **Yes**, are air heaters constructed and fitted as per Rule. **None fitted**

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

Are 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. **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 B.H.P.** 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. **Fitted.** 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**

PARTICULARS OF GENERATING PLANT.										
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.			
		Kilowatts.	Volts.	Amperes.	Rev. per Min.		Fuel Used.	Flash Point of Fuel.		
MAIN	Two	15	115	130	575	Steam Reciprocating				
AUXILIARY										
EMERGENCY										
ROTARY TRANSFORMER										

GENERATOR, LIGHTING AND HEATING CONDUCTORS.										
DESCRIPTION.	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED	
			No.	Diameter.	In Circuit.	Rule.				
MAIN GENERATOR No. 1 For 1d.	1	.15	37	.072	130	152	46	Rubber Insulated	Lead Covered in Conduit	
" " No. 2 Aft	1	.15	37	.072	130	152	30	" "	" "	
AUXILIARY GENERATOR										
EMERGENCY GENERATOR... ..										
ROTARY TRANSFORMER { MOTOR GENERATOR...										
ENGINE ROOM & Boiler Room Lighting D8	1	.032	7	.077	20	55	50	" "	Double Braided in Conduit	
BOILER ROOM										
AUXILIARY SWITCHBOARDS										
Sec. Box S (D, D, D, D)	1	.104	19	.083	60	118	280	" "	" "	
" " S (D, D, D, D)	1	.052	7	.097	73	75	86	" "	" "	
ACCOMMODATION Engrs. D4	1	.032	7	.077	20	55	4	Rubber Insulated	Double Braided in Conduit	
" Crew Aft D7	1	.032	7	.077	25	55	338	" "	" "	
" Saloon D2	1	.032	7	.077	17	55	4	" "	" "	
" Capt. & Bridge DL	1	.032	7	.077	20	55	98	" "	Double Braided in Conduit & Lead Covered.	
WIRELESS SIGNAL	1	.052	7	.097	22.5	75	338	" "	" "	
" Navigation	1	.008	7	.038	2.5	27	370	" "	" "	
MASTHEAD LIGHT	1	.003	7	.024	.3	10	300	" "	Double Braided in Conduit	
SIDE LIGHTS	1	.003	7	.024	.6	10	80	" "	Lead Covered	
COMPASS LIGHTS	1	.003	7	.024	.05	10	44	" "	" "	
Cargo Lights Aft D6	1	.032	7	.077	13	55	180	" "	Double Braided in Conduit	
CARGO LIGHTS Ships D5	1	.032	7	.077	15	55	4	" "	" "	
" Forward D3	1	.032	7	.077	22	55	200	" "	" "	
Refrig. Dis. D9	1	.012	7	.048	27	34	320	" "	" "	

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.			
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	1	1	.003	7	.024	4.5	10	16	Rubber Insulated	Double Braided in Conduit
Refrig. Motor	1	1	.012	7	.048	16	34	10	" "	" "

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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.

For WEST COAST SHIPBUILDERS LTD. *W. M. Larn* Electrical Engineers.
General Manager.

Date 10th June, 1942.

COMPASSES.

Distance between electric generators or motors and standard compass

25 feet

Distance between electric generators or motors and steering compass

20 feet

The nearest cables to the compasses are as follows:—

A cable carrying 20 Ampères 1' feet from standard compass 1' feet from steering compass.

A cable carrying 35 Ampères 5' feet from standard compass 3.5' feet from steering compass.

A cable carrying 1.25 Ampères 9.5' feet from standard compass 6' 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.

For WEST COAST SHIPBUILDERS LTD.

Builder's Signature.

Date 10th June, 1942.

Is this installation a duplicate of a previous case Yes If so, state name of vessel S.S. "FORT ST. JAMES"

(Vancouver Report No. 5718)

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 letters and Society's Rules. The material and workmanship are good. 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 ship's 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 Merchant Shipping, Ltd., to ensure that the terms of the

specification have been fully complied with and this work has been satisfactorily carried out.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £125.00

When applied for,

10th June 1942

Travelling Expenses (if any) £10.00

When received,

19

Committee's Minute FRL 21 AUG 1942

Assigned

See Ver. No. 5764



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Foundation