

Rpt. 13.

No. 313

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report June 17 1943 When handed in at Local Office..... Port of Saint John, N.B.

No. in Survey held at Saint John, N. B. Date, First Survey Nov. 6 Last Survey Feb. 20 19 43
Reg. Book. (Number of Visits 46)

on the single screw steamer "ROCKWOOD PARK" Tons { Gross 2877
Net 1655

Built at Saint John, N. B. By whom built St. John Dry Dock and Shipbuilding Co. Ltd. Yard No. 14 When built 1943
His Majesty the King in the right of

Owners Canada, represented by the Minister of Munitions and Supply Port belonging to Montreal

Electric Light Installation fitted by St. John Drydock & Shipbuilding Co. Ltd. Contract No. When fitted 1943

Is the Vessel fitted for carrying Petroleum in bulk No

System of Distribution Two conductor insulated

Pressure of supply for Lighting 115 volts, Heating - volts, Power - volts.

Direct or Alternating Current, Lighting Direct Current Power -

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 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 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 -

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 Nos. 65-76, Starboard side of E.R. operating platform between frames, 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 Starboard side of E.R. on platform above generators, 24" from Coal bunker bulkhead.

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 framework - is 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

Yes, 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

Main switches and equalizer switches operate in parallel and have automatic overboard protection.

Are turbine driven generators fitted with emergency trip switch as per rule - Are cupboards or compartments containing switchboards composed of

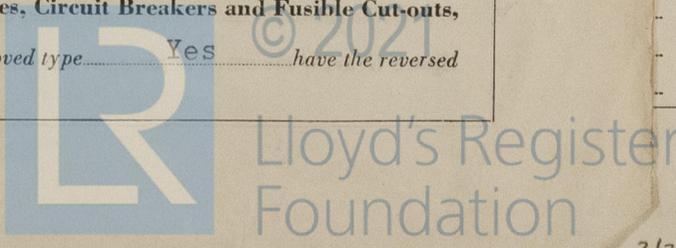
fire-resisting material or lined with approved material - Instruments on main switchboard Yes ammeters Yes voltmeters

Yes 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

Ground lamps 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 **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 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** Negligible **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 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 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 In strong steel conduits.

If cables are run in wood casings, are the casings and caps secured by screws -, are the cap screws of brass -, 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 No joints

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 Ground lamps only
-, are their connections made as per Rule Yes

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule - **Emergency Supply, state position and method of control of the emergency supply and how the generator is driven** Oil lamps and hand battery lamps.

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** -

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 No
-, 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 -, are air heaters constructed and fitted as per Rule -

Searchlight Lamps, No. of -, whether fixed or portable -, are their fittings as per Rule -

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 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 -
-, 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 - **Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule** - **Lightning Conductors, where lightning conductors are required, are these fitted as per Rule** - **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 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 type approved by the Home Office Yes
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				Revs. per Min.	DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.				Fuel Used.	Flash Point of Fuel.
MAIN ...	2	15	115	130	575	Single cylinder vertical engine			
AUXILIARY ...						8" x 4"			
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.	Circuit.	Rule.			
MAIN GENERATOR #0000	1	0.1659	19	.1056	130	160	50 ft.	Rubber	Strong steel conduits
EQUALISER CONNECTIONS	1	0.1659	19	.1056	130	160	50 ft.	"	"
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR...									
ROTARY TRANSFORMER MOTOR GENERATOR...									
ENGINE ROOM ... #14	1	0.0032	7	.0242	5	11.5	60 ft.	"	"
BOILER ROOM ... #14	1	0.0032	7	.0242	5	11.5	75 "	"	"
AUXILIARY SWITCHBOARDS #4	1	0.0329	7	.0772	35	56.0	100 "	"	"
ACCOMMODATION #12	1	0.0051	7	.0305	5	16.5	250 "	"	"
WIRELESS ... #6	1	0.0206	7	.0612	13	41	180 "	"	"
SEARCHLIGHT ...									
MASTHEAD LIGHT #14	1	0.0032	7	.0242	5	11.5	140 "	"	"
SIDE LIGHTS ... #14	1	0.0032	7	.0242	5	11.5	50 "	"	"
COMPASS LIGHTS #14	1	0.0032	7	.0242	5	11.5	25 "	"	"
POOP LIGHTS ... #14	1	0.0032	7	.0242	5	11.5	50 "	"	"
CARGO LIGHTS ... #12	1	0.0051	7	.0305	7	16.5	50 ft. aft	"	"
ARC LAMPS ...									
HEATERS ... #12	1	0.0051	7	.0305	5	16.5	250 ft.	"	"

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 ...										
D.G. Motors #0000	2	1	0.1659	19	.1055	115	418.0	60 ft.	Rubber	Strong Steel Conduits
D.G. Generators #0000	2	1	0.1659	19	.1055	333	418.0	100 ft.	"	"
Refrigerator #10	1	1	0.0082	7	.0385	24	28.0	80 ft.	"	"
Refrig. Circ. Pump #14	1	1	0.0032	7	.0242	10	11.5	150 ft.	"	"
Wireless Converter #6	1	1	0.0206	7	.0612	46	52.0	175 ft.	"	"

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 St. John Dry Dock & Shipbuilding Co. Ltd.

J. H. Reed
General Superintendent

Electrical Engineers.

Date 11th June 1943

COMPASSES.

Distance between electric generators or motors and standard compass 64 feet.

Distance between electric generators or motors and steering compass 56 "

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères 4 feet from standard compass 4 feet from steering compass.

A cable carrying 3 Ampères 8 feet from standard compass 6 feet from steering compass.

A cable carrying 3 Ampères 8 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 2 degrees on all course in the case of the standard compass, and 4 and 7 degrees on all course in the case of the steering compass.

For St. John Dry Dock & Shipbuilding Co. Ltd.

J. H. Reed
General Superintendent

Builder's Signature.

Date 11th June 1943

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.)

The electrical equipment of this vessel has been fitted in accordance with the Society's Rules and Regulations; the materials and workmanship used throughout are of good and sound quality. The installation has been tested under full working conditions and found satisfactory.

Voted + m order 12/43

Total Capacity of Generators 30 Kilowatts.

The amount of Fee \$95.00 : When applied for, Mar. 23 19 43
Travelling Expenses (if any) £ Included : When received, May 26 19 43
with Engine Report

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im-4-42.—Transfer. Printed in U.S.A.
(The Surveyors are requested not to write on or below the space for Committee's Minute)



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