

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 30. 3. 1925 When handed in at Local Office 30. 3. 1925 Port of GLASGOW.

Received at London Office 1 APR 1925

No. in Survey held at CLYDEBANK.

Date, First Survey 1. 12. 24 Last Survey 2. 3. 1925

Reg. Book.

90297 on the "S.S. PRINCESS MARGUERITE"

(Number of Visits 2)

 Tons { Gross 3559
Net 2719

Built at CLYDEBANK.

By whom built JOHN BROWN & CO

Yard No. 505

When built 1925.

Owners THE CANADIAN PACIFIC RLY CO

Port belonging to Victoria B.C.

Electric Light Installation fitted by MESSRS JOHN BROWN & CO LTD Contract No. 505 When fitted 1925.

System of Distribution TWO WIRE INSULATED

Pressure of supply for Lighting 110 volts, Heating 110 volts, Power 110 volts.

Direct or Alternating Current, Lighting DIRECT CURRENT Power DIRECT CURRENT

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 overload 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 No, is an adjustable regulating resistance fitted in series with each shunt field YES

Are all terminals accessible and clearly marked YES, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited YES Are the lubricating arrangements of the generators as per Rule YES

Position of Generators AFT END OF ENGINE ROOM (HOLD LEVEL)

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 axis 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 AFT END OF ENGINE ROOM STARBOARD (ORLOP DECK LEVEL)

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, incombustible non-absorbent materials YES, is all insulation of high dielectric strength and of permanently high insulation resistance YES

if semi-insulating material is used, are all conducting parts connected to one pole insulated from the slab with mica or micanite and the slab similarly insulated from its framework YES, and is the frame effectively earthed YES

Are the following fittings as per Rule, viz.:— 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 EACH GENERATOR IS CONTROLLED BY A D.P. SWITCH AND D.P. FUSES. ONE OF THE SWITCHES BEING ARRANGED WITH A DOUBLE THROW TO ENABLE SUPPLY BEING TAKEN FROM SHORE. EACH BRANCH CIRCUIT IS PROTECTED BY D.P. FUSES AND A S.P. SELECTOR SWITCH GIVING SUPPLY FROM EITHER GENERATOR.

Instruments on main switchboard 3 ammeters 3 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 TWO LAMPS CONNECTED IN SERIES, WITH SWITCHES, AND WIRE BETWEEN LAMPS CONNECTED TO EARTH.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES.

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES



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Lloyd's Register
Foundation

W1224-0253 1/2

TWIN FOR SUBMANS AND ENGINE ROOM BOILER ROOM AND OUTSIDE LIGHTING.
SINGLE ELSEWHERE.

Insulation of Cables, state type of cables, single or twin YES are the cables insulated and protected as per Tables III or IV of the Rules

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 3.87 TO FARTHEST LAMP.

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 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 FITTED

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 SUPPORTED BY PERFORATED STEEL PLATING OR CLIPPED TO STEEL BULKHEADS
PROTECTED BY STEEL CONDUIT ON DECK AND CARGO SPACES AND BY WOOD CASING IN PASSENGER ACCOMMODATION. MAIN CABLES ARE PROTECTED BY STEEL WIRE ARMOURING.
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 VI 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 NONE

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 Positions, 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 FIBRE

Earthing Connections, state what earthing connections are fitted and their respective sectional areas —
—, 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 NONE 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 YES
has each navigation lamp an automatic indicator as per Rule YES, are separate screens provided for the use of oil and electric side lights YES
are separate oil lanterns provided for the mast head lights and side lights YES

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight —
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 CONNECTION IN BAGGAGE
STORES PROTECTED BY CAST IRON CASE.
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 —

Searchlight Lamps, No. of 1, whether fixed or portable FIXED, are their fittings as per Rule YES

Are 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 axis of rotation fore and aft —
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 YES, 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 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 —
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	60	110	545	500	ENCLOSED FORCED LUBRICATION COMPOUND ENGINE			
AUXILIARY									
EMERGENCY									
ROTARY TRANSFORMER									

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	6	1.03760	127	.103	545 EA. CONDUCTOR	50	RUBBER	LEAD COVERED & ARMURED
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
K	ENGINE ROOM	2	.02214	7	.064	44	20	"	"
	BOILER ROOM								
A	LIGHTING BOAT DECK	2	.03960	19	.052	55.5	272	"	ARMURED
B	" FROM " FORW?	2	.02214	7	.064	29.6	280	"	"
C	" " " AFT	2	.03960	19	.052	52.4	220	"	"
D	UPPER DECK LIGHTING FOR?	2	.03960	19	.052	45.0	340	"	"
E	POLICE LIGHTING.	2	.06000	19	.064	75.0	170	"	"
F	LIGHTING UPPER DECK MID	2	.03960	19	.052	63.0	200	"	"
G	" " " AFT	2	.02214	7	.064	34.2	260	"	"
H	" MAIN DECK FORW?	2	.01462	7	.052	35.0	170	"	"
J	" " " AFT	2	.03960	10	.052	61.0	170	"	"
V	WIRELESS	2	.01462	7	.052	9	500	"	"
U	SEARCHLIGHT	2	.03960	19	.052	60	600	"	"
	MASTHEAD LIGHTS.	4	.00194	3	.029	1.2	300	"	LEAD COVERED & ARMURED
	SIDE LIGHTS	4	"	"	"	"	35	"	"
	COMPASS LIGHTS	6	"	"	"	.1	30	"	LEAD COVERED
	POOR LIGHTS.								
R	CARGO LIGHTS	8	"	"	"	2.0	160	"	IN CONDUIT.
	ARC LAMPS								
L, M, N & P	HEATERS	8	.14780	37	.072	136	300	"	ARMURED.

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	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	1	.00299	3	.036	8.8	36	RUBBER	LEAD COVERED & ARMURED
	OIL FUEL TRANSFER PUMP								
S	WINDLASS	2	.07592	19	.072	93	260	RUBBER	ARMURED
	WINCHES, FORWARD BOAT								
	WINCHES, AFT								
	STEERING GEAR								
R	WORKSHOP MOTOR	6	.00194	3	.029	4.4	100	"	IN CONDUIT
	VENTILATING FANS								
	GALLEY FAN.	1	.00701	7	.036	6.2	"	"	"
T	FREIGHT ELEVATOR	1	.24650	37	.093	190	380	"	ARMURED.
	DISH WASHER MOTOR	1	.00194	3	.029	4.7	60	"	CONDUIT.

W1224-D253 2/2

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.

John Brown & Company, Limited.

Electrical Engineers.

Date

J. Henderson
Clydebank, Glasgow.

COMPASSES.

Distance between electric generators or motors and standard compass 25 FEET

Distance between electric generators or motors and steering compass 30 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 60 Amperes 5 feet from standard compass 5 feet from steering compass.

A cable carrying 17.5 Amperes 5 feet from standard compass 5 feet from steering compass.

A cable carrying Amperes feet from standard compass 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 course in the case of the standard compass, and NIL degrees on course in the case of the steering compass.

John Brown & Company, Limited.

Builder's Signature.

Date

J. Henderson
Clydebank, Glasgow.

Is this installation a duplicate of a previous case YES If so, state name of vessel "PRINCESS KATHLEEN" (44283)

General Remarks (State quality of workmanship, opinions as to class, &c.) This installation has

been fitted on board under special survey.
Tested under full working conditions and
found satisfactory. The workmanship was
found to be good and sound.

It is submitted that
this vessel is fit to be
entered in the
Lloyd's Register.

Elec. Light
W.A.

1/4/25.

Total Capacity of Generators 180 Kilowatts

The amount of Fee ... £ 35-10-0

Travelling Expenses (if any) £

When applied for,

17.3.25

When received,

1/4/25

J. S. Rankin
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Light

GLASGOW 31 MAR 1925



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A.L.
30/3/25