

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

30 SEP 1930

Date of writing Report 29.9.1930 When handed in at Local Office 29.9.1930 Port of Middlebrough.

No. in Survey held at South Bank. Date, First Survey 5 May Last Survey 22 May 1930
Reg. Book. "Pont Alfred" (Number of Visits.....)

91951 Sub on the "Pont Alfred" Tons { Gross 4918 Net 3005

Built at South Bank. By whom built Messrs Souths Dock Co Yard No. 912 When built 1930-5.

Owners Anticosti Shipping Co. Port belonging to Middlebrough.

Electric Light Installation fitted by RICHARD PICKERSGILL & SONS, LTD. Contract No. When fitted May 1930

System of Distribution Double Wire
Pressure of supply for Lighting 110 volts, Heating — volts, Power — volts.

Direct or Alternating Current, Lighting Direct 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 *ye*

Generators, do they comply with the requirements regarding rating *ye*, are they compound wound *ye*
are they over compounded 5 per cent. *ye*, 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 —

Are all terminals accessible, clearly marked, and furnished with sockets *ye*, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched *ye*

Position of Generators Starboard side engine room. In recess. Are the lubricating arrangements of the generators as per Rule *ye*

is the ventilation in way of the generators satisfactory *ye*, are they clear of all inflammable material *ye*
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 *ye*,
are their axes of rotation fore and aft *ye*

Earthing, are the bedplates and frames of the generating plant efficiently earthed *ye* are the prime movers and their respective generators in metallic contact *ye*

Main Switch Boards, where placed Starboard side engine room. In Recess.

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 *ye*,
are they protected from mechanical injury and damage from water, steam or oil *ye*, 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 *ye*, is all insulation of high dielectric strength and of permanently high insulation resistance *ye*, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework *ye*

and is the frame effectively earthed *ye*. Are the fittings as per Rule regarding:— spacing or shielding of live parts *ye*, accessibility of all parts *ye*, absence of fuses on back of board *ye*, proportion of omnibus bars —, individual fuses to voltmeter, pilot or earth lamp *ye*, connections of switches *ye*

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches *D.P. main*

switches and fuses, and 6 selection switches for outgoing circuits with D.P. fuses.

Instruments on main switchboard 1 ammeters 1 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 2 lamps in series across positive and negative to earth

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

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



Cables: Single, twin, concentric, or multicore single are the cables insulated and protected as per Tables IV or V of the Rules nil

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load

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

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

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

Support and Protection of Cables, state how the cables are supported and protected Lead Armoured cable with leaded W.I. clips and lead covered with brass clips

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 —

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements

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

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed — state the material of which the bushes are made lead

Earthing Connections, state what earthing connections are fitted and their respective sectional areas Copper Strips 1" x 1/8"

are their connections made as per Rule —

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

Navigation Lamps, are these separately wired —, controlled by separate switch and separate fuses —, are the fuses double pole —, are the switches and fuses grouped in a position accessible only to the officers on watch —

has each navigation lamp an automatic indicator as per Rule —

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 —, 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 —

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 —, 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 —, are the coils self-contained and readily removable for replacement —, are the brushes, brush holders, terminals and lubricating arrangements as per Rule —, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material —

are they protected from mechanical injury and damage from water, steam or oil — are their axes 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 —, 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 —

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	2	10	110	91	380	Single and Forge		
AUXILIARY						Engine Steam		
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	2	11680	37	0.64	91	28	V.I.R.	W. Gas pipe
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR	2	11680	37	0.64	91	28	V.I.R.	
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM								
	BOILER ROOM								
	ACCOMODATION								
	Life Boats	2	00655	7	0.29	6	174	V.I.R.	Lead Armoured
	Engine Officers	2	00705	7	0.36	15	161	"	"
	Galley	2	00705	7	0.36	18	51	"	"
	Engine Room	2	00705	7	0.36	7.8	45	"	"
	Bridge Navig	2	00471	7	0.29	8.5	245	"	"
	WIRELESS	2	00705	7	0.36	10	220	"	"
	SEARCHLIGHT								
	MASTHEAD LIGHT	2	00152	1	0.44	40 walt	250	V.I.R.	Lead Covered
	SIDE LIGHTS	2	"	1	"	40 walt	110	"	"
	COMPASS LIGHTS	2	"	1	"	30 "	35	"	"
	POOP LIGHTS								
	CARGO LIGHTS								
	ARC LAMPS								
	HEATERS								

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								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	(a) MOTOR GENERATOR								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								

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.

RICHARD PICKERSGILL & SONS, LTD.
A.H. Pickersgill

Electrical Engineers.

Date _____

COMPASSES.

Distance between electric generators or motors and standard compass 260 feet
 Distance between electric generators or motors and steering compass 250 feet

The nearest cables to the compasses are as follows:—

A cable carrying 30 ^{watts} ~~Ampères~~ 12 feet from standard compass 6 feet from steering compass.
 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 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 each course in the case of the standard compass, and nil degrees on each course in the case of the steering compass.

FOR SMITH'S DOCK COMPANY, L^{td}

J. W. Cairns

Builder's Signature.

Date 29/9/30

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 materials and workmanship are good.
 This electric light installation has been fitted under special survey and in accordance with the Rules. In my opinion it is suitable for a vessel classed with this Society.

It is admitted that this vessel is eligible for THE REGISTRATION

elec. light
P. J. McA...

30/9/30

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17-10-0 When applied for, 30 May 1930

Travelling Expenses (if any) £ : : When received, 7 June 1930 *alys*

P. J. McA...
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt.

Im. 228.—Transfer.
 (The Surveys are requested not to write on or below the space for Committee's Minutes.)



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