

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 1189

Port of BostonDate of First Survey 23 JuneDate of Last Survey 27 Aug 1919No. of Visits 3No. in
Reg. Bookon the ~~Iron or Steel~~ wood tw. sc. s/s RIPOGENUS

Port belonging to

Searsport, Me.

Built at

Rockland, Me.

By whom

Francis Cobb S. B. Co.When built 1919

Owners

Great Northern Paper Co.

Owners' Address

60 Congress St., Boston, Mass

Yard No.

71

Electric Light Installation fitted by

The Portland Co.When fitted 1919

DESCRIPTION OF DYNAMO, ENGINE, ETC.

1-10 KW General Electric generator, 6 pole compound wound, direct driven by vertical steam engine 6 1/2 x 5.

Capacity of Dynamo

91

Amperes at

110

Volts, whether continuous or alternating current

continuous

Where is Dynamo fixed

Engine room

Whether single or double wire system is used

double

Position of Main Switch Board

Engine roomhaving switches to groups A, B, C, D, E, F

of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each

One in Midship House with 4 switchesOne tell tale in Pilot House with 8 switches

If fuses are fitted on main switch board to the cables of main circuit

yes

and on each auxiliary switch board to the cables of auxiliary circuits

yes

and at each position where a cable is branched or reduced in size

none

and to each lamp circuit

no

If vessel is wired on the double wire system are fuses fitted to both flow and return wires or cables of all circuits including lamp circuits

all but lamp circuits

Are the fuses of non-oxidisable metal

yesand constructed to fuse at an excess of less than 100 per cent over the normal current

Are all fuses fitted in easily accessible positions

yes

Are the fuses of standard dimensions

enclosed type

If wire fuses are used

are permanent instructions fitted on or near each switch board giving particulars of proper size of fuse for each circuit

On fuse cases

Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases

yes

Total number of lights provided for

132

arranged in the following groups:—

A 4 Mast head light with{ A 14B 11 lights each of32

candle power requiring a total current of

5

Amperes

B 11 Port E.R.{ B 14C 11 lights each of32

candle power requiring a total current of

5

Amperes

C 11 Starboard E.R.{ C 9D 37 lights each of32

candle power requiring a total current of

4

Amperes

D 37 Midship HouseE 14 Searchlight

lights each of

✓

candle power requiring a total current of

14

Amperes

F { A 4 Mast head light with

1 lamps each of

32

candle power requiring a total current of

35

Amperes

B 2 Side light with

1 lamps each of

32

candle power requiring a total current of

2

Amperes

C 3 Cargo lights of

4 light cluster + 1-6 light cluster

32

candle power, whether incandescent or arc lights

3

Amperes

If arc lights, what protection is provided against fire, sparks, &c.

✓

Where are the switches controlling the masthead and side lights placed

Engine room + pilot house.

DESCRIPTION OF CABLES.

Main cable carrying 91 Amperes, comprised of 19 wires, each 0.746" S.W.G. diameter, 0.83 square inches total sectional area

Branch cables carrying 35 1/4 Amperes, comprised of 7 wires, each 0.61" S.W.G. diameter, 0.22 square inches total sectional area

Branch cables carrying 5 to 2 Amperes, comprised of 1 wires, each 0.64" S.W.G. diameter, 0.03 square inches total sectional area

Leads to lamps carrying 4 Amperes, comprised of 1 wires, each 0.64" S.W.G. diameter, 0.03 square inches total sectional area

Cargo light cables carrying 3 Amperes, comprised of 13 wires, each 0.1" S.W.G. diameter, 0.02 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Heavy rubber insulation, covered with braided waterproof fibre + carried in metal conduit throughout.

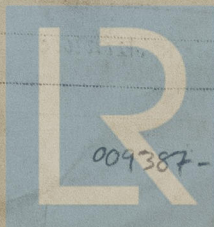
Joints in cables, how made, insulated, and protected

Soldered well taped + made in metal junction boxes

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances yes Are all joints in accessible positions, none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage yes

Are there any joints in or branches from the cable leading from dynamo to main switch board no

How are the cables led through the ship, and how protected

Metallic conduits.

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DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible *yes*

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture *Metallic conduits*

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *Metal conduits*

What special protection has been provided for the cables near boiler casings *Metal conduits*

What special protection has been provided for the cables in engine room *Metal conduits* *Metal conduits*

How are cables carried through beams *Metal conduits* through bulkheads, &c. *Metal conduits made tight*

How are cables carried through decks *Metal conduits made watertight*

Are any cables run through coal bunkers *No* or cargo spaces *yes* or spaces which may be used for carrying cargo, stores, or baggage *yes*

If so, how are they protected *Metal conduits run high up under deck in loom of shelf*

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage *No*

If so, how are the lamp fittings and cable terminals specially protected *✓*

Where are the main switches and fuses for these lights fitted *✓*

If in the spaces, how are they specially protected *✓*

Are any switches or fuses fitted in bunkers *No*

Cargo light cables, whether portable or permanently fixed *portable* How fixed *Attachment plugs provided*

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel *✓*

How are the returns from the lamps connected to the hull *✓*

Are all the joints with the hull in accessible positions *✓*

Is the installation supplied with a voltmeter *yes* and with an amperemeter *yes*, fixed on switchboard

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and fuses fitted in positions not liable to the accumulation of petroleum vapour or gas *✓*

Are any switches, fuses, or joints of cables fitted in the pump room or companion *✓*

How are the lamps specially protected in places liable to the accumulation of vapour or gas *✓*

The copper used is guaranteed to have a conductivity of not less than that of the Engineering Standards Committee's standard, and the wires are protected by tinning from the sulphur compounds present in the insulating material.

Insulation of cables is guaranteed to have a resistance of not less than 600 megohms per statute mile at 60° Fahrenheit after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volts and while the cable is still immersed.

The foregoing statements are a correct description of the Electric Light installation fitted by us on this vessel and we declare that it is at this date in good order and safe working condition.

Electrical Engineers

Date

COMPASSES.

Distance between dynamo or electric motors and standard compass *about 140 feet*

Distance between dynamo or electric motors and steering compass *about 140 "*

The nearest cables to the compasses are as follows:—

Cable	Amperes	Distance from standard compass	Distance from steering compass
A cable carrying Binnacle	$\frac{1}{4}$	close to	close to
A cable carrying Navigation	2	about 8	about 8
A cable carrying Searchlight	35	" 8	" 8

Have the compasses been adjusted with and without the electric installation at work at full power *yes*

The maximum deviation due to electric currents, etc., was found to be _____ degrees on _____ course in the case of the standard compass and _____ degrees on _____ course in the case of the steering compass.

The Portland Co

By Geo. F. Reynolds Gen. Mgr.

Builder's Signature.

Date *Sept. 17, 1919.*

GENERAL REMARKS. This Electric Light Installation has been fitted in accordance with the Rules & the workmanship & materials are good. It has been satisfactorily tried under full load, & it is now in good & safe working condition & eligible, in my opinion to receive the notation ELEC. LIGHT in the Register Book. *It is submitted that this vessel is eligible for THE RECORD. Elec Light*

John S. Heat

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Elec Lt

New York SEP 23 1919

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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