

# REPORT ON ELECTRIC LIGHTING INSTALLATION, No. 1189

Port of Boston Date of First Survey 23 June Date of Last Survey 27 Aug 1919 No. of Visits 3  
 No. in Reg. Book on the ~~Iron~~ Steel wood tw. sc. 5/8 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 room having 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 switches  
One 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 yes and 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:—

Group	Description	Number of Lights	Candle Power	Current (Amperes)
A	lift Lights	14	32	5
B	Port E.R.	11	32	4
C	Starboard E.R.	11	32	4
D	Midship House	37	32	3
E	Searchlight	1	14	14
F	Must head light with 1 lamp each of 32 candle power requiring a total current of 35 Amperes	1	32	35
F	2 Side light with 1 lamp each of 32 candle power requiring a total current of 2 Amperes	2	32	2
F	3 Cargo lights of 4 light cluster + 1-6 light cluster candle power, whether incandescent or arc lights 3 Amperes	3	32	3

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

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 .0746" SWG. diameter, .083 square inches total sectional area  
 Branch cables carrying 35 to 14 Amperes, comprised of 7 wires, each .061" SWG. diameter, .022 square inches total sectional area  
 Branch cables carrying 5 to 2 Amperes, comprised of 1 wires, each .064" SWG. diameter, .003 square inches total sectional area  
 Leads to lamps carrying 4 Amperes, comprised of 1 wires, each .064" SWG. diameter, .003 square inches total sectional area  
 Cargo light cables carrying 3 Amperes, comprised of 13 wires, each .01" SWG. diameter, .002 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



