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Rpt. 13

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REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 1499

Port of Boston, Mass Date of First Survey 6.6.21 Date of Last Survey 2.7.21 No. of Visits 6
 No. in Reg. Book on the ~~Steel~~ S.S. "ILLINOIS" Port belonging to Port Arthur, Texas
 Built at Bath, Me. By whom The Texas Steamship Company When built 1921-7
 Owners The Texas Company Owners' Address 17 Battery Place, New York
 Yard No. 31 Electric Light Installation fitted by The Texas Steamship Company When fitted 1921

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Two 10 K.W. General Electric generators, direct driven by vertical steam engines.

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 to L of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each 1 in machine shop with 3; 2 in aft. quarters with 6 each; 1 in aft quarters started with 6; 1 in poop with 3; 1 in bridge house with 6; 1 in bridge with 6; 1 in forecabin with 8.

Are fuses 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 yes 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 circuit

Are the fuses of non-oxidizable 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 inclosed 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 228 arranged in the following groups:—

| | | | | | |
|-------------------|----------------------|---------------|--|---|----------------------|
| A Hospital heater | lights each of | <u>✓</u> | candle power requiring a total current of | <u>13</u> | Amperes |
| B Pump room | 12 lights each of | <u>80</u> | candle power requiring a total current of | <u>10.8</u> | Amperes |
| C Quarters fwd | 41 lights each of | <u>32</u> | candle power requiring a total current of | <u>19.7</u> | Amperes |
| D Wireless | lights each of | <u>✓</u> | candle power requiring a total current of | <u>18</u> | Amperes |
| E Quarters aft | 73 lights each of | <u>32</u> | candle power requiring a total current of | <u>30</u> | Amperes |
| F | Mast head light with | lamps each of | <u>48</u> | candle power requiring a total current of | } <u>3.3</u> Amperes |
| | Side light with | lamps each of | <u>48</u> | | |
| G | 8 Cargo lights of | <u>320</u> | candle power, whether incandescent or arc lights | <u>incandescent</u> | |

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 | <u>91</u> Amperes, comprised of | <u>19</u> wires, each | <u>.074</u> S.W.G. diameter, | <u>.083</u> square inches total sectional area |
| Branch cables carrying | <u>13</u> Amperes, comprised of | <u>7</u> wires, each | <u>.04</u> S.W.G. diameter, | <u>.014</u> square inches total sectional area |
| Branch cables carrying | <u>10.8</u> Amperes, comprised of | <u>7</u> wires, each | <u>.04</u> S.W.G. diameter, | <u>.014</u> square inches total sectional area |
| Leads to lamps carrying | <u>4</u> Amperes, comprised of | <u>1</u> wires, each | <u>.064</u> S.W.G. diameter, | <u>.003</u> square inches total sectional area |
| Cargo light cables carrying | <u>4</u> Amperes, comprised of | <u>2</u> ^{60 wires} wires, each | <u>.064</u> S.W.G. diameter, | <u>.003</u> square inches total sectional area |

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Heavy rubber insulation covered with braided water proof fibre, & carried in steel conduit throughout.

Joints in cables, how made, insulated, and protected Soldered, well taped, and made in metal junction boxes throughout.

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 Steel Conduits.

Special Fees... \$175.00



