

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 31844

Port of Glasgow Date of First Survey 29.6.12 Date of Last Survey 10.9.12 No. of Visits 13
 No. in Reg. Book 198 on the ~~Iron~~ Steel T.S.S. "Infanta Isabel" Port belonging to Cádiz
 Built at Port Glasgow By whom Russell & Co. When built 1912
 Owners Comillas, Izquierdo & Co. Owners' Address _____
 Yard No. 633 Electric Light Installation fitted by Bennett & Rutherford When fitted 1912

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Single Cylinder Engines coupled to compound wound dynamos

Capacity of Dynamo 300 Amperes at 110 Volts, whether continuous or alternating current continuous
 Where is Dynamo fixed Main platform Engine Room Whether single or double wire system is used double
 Position of Main Switch Board near dynamos having switches to groups 12 of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each Fuseboards placed in Forecastle, 1st Class
Pantry, 2nd Class Pantry, 3rd Class Pantry, Engine Room, Tween decks
 If cut outs 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 Yes and to each lamp circuit Yes
 If cessel is wired on the double wire system are cut outs fitted to both flow and return wires or cables of all circuits including lamp circuits Yes
 Are the cut outs of non-oxidizable metal Yes and constructed to fuse at an excess of 50 per cent over the normal current
 Are all cut outs fitted in easily accessible positions Yes Are the fuses of standard dimensions Yes 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 all one size
 Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases Yes

Total number of lights provided for 820 arranged in the following groups:—

| | | | | | | |
|---|----------------------|-----------------|--|---|-------------|---------|
| A | <u>144.0</u> | lights each of | <u>16</u> | candle power requiring a total current of | <u>103</u> | Amperes |
| B | <u>188.0</u> | lights each of | <u>16</u> | candle power requiring a total current of | <u>109</u> | Amperes |
| C | <u>40.0</u> | lights each of | <u>16</u> | candle power requiring a total current of | <u>23.3</u> | Amperes |
| D | <u>160.0</u> | lights each of | <u>16</u> | candle power requiring a total current of | <u>93.1</u> | Amperes |
| E | <u>25.0</u> | lights each of | <u>16</u> | candle power requiring a total current of | <u>14.5</u> | Amperes |
| 2 | Mast head light with | 1 lamps each of | <u>32</u> | candle power requiring a total current of | <u>1.1</u> | Amperes |
| 2 | Side light with | 1 lamps each of | <u>32</u> | candle power requiring a total current of | <u>1.1</u> | Amperes |
| 4 | Cargo lights of | <u>64</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 Wheel House

DESCRIPTION OF CABLES.

Main cable carrying 300 Amperes, comprised of 34 wires, each 12 L.S.G. diameter, .314 square inches total sectional area
 Branch cables carrying 51.6 Amperes, comprised of 19 wires, each 16 L.S.G. diameter, .0612 square inches total sectional area
 Branch cables carrying 40.0 Amperes, comprised of 19 wires, each 14 L.S.G. diameter, .0467 square inches total sectional area
 Leads to lamps carrying 2.5 Amperes, comprised of 1 wires, each 16 L.S.G. diameter, .00322 square inches total sectional area
 Cargo light cables carrying 3 Amperes, comprised of 7 wires, each 22 L.S.G. diameter, .0043 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Insulated with Pure & Vulcanizing India Rubber. Taped. The whole vulcanized together & covered with lead over all. Where Arm'd Cables are used, covered as above and armoured with galv'd iron wires.
 Joints in cables, how made, insulated, and protected No joints, mechanical boxes used

Are all the joints of cables thoroughly soldered, resin only having been used as a flux _____ 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 _____

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 Armoured.



© 2021

Lloyd's Register
F04133610073

