

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 5016

Port of *Falmouth* Date of First Survey *1st May* Date of Last Survey *16th May* No. of Visits *14*
 No. in *on the Iron or Steel S.S. "The New"* Port belonging to *London*
 Reg. Book *Supplement* *76* Built at *Falmouth* By whom *Messrs Cox & Co* When built *1908*
 Owners *Great Western Railway Co* Owners Address *Paddington, London*
 Yard No. *128* Electric Light Installation fitted by *Thos. Curtis & Co* When fitted *1908*

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Lisson Patent Enclosed High Speed Engine 570 R.P.M. fitted with Expansion Governor direct coupled to Mawdsleys Patent Zone Dynamo all on one bedplate

Capacity of Dynamo *6 Kilowatts* Amperes at *- 105 -* Volts, whether continuous or alternating current *continuous*

Where is Dynamo fixed *Starboard Side Engine Room (Dynamo Forward Engine aft)*

Position of Main Switch Board *Aft Bulkhead Engine Room* having switches to groups *approx 20* of lights, &c., as below

Positions of auxiliary *D.P. Fuse Boards* boards and numbers of switches on each *1 Aft Bulkhead Engine Room Switches*

2 Midship Saloon aft 1 Midship Saloon Forward, both Starboard Side

If cut outs are fitted on main switch board to the cables of main circuit *Yes, D.P.* and on each auxiliary switch boards to the cables of auxiliary circuits *Yes, D.P.* and at each position where a cable is branched or reduced in size *25 Amp* and to each lamp circuit *5 Amp*

If vessel 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 *approx 25* 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 *(Cartridge fuses standard type)*

Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases *Yes*

Total number of lights provided for *63* arranged in the following groups:—

| | | | | | | |
|---|------------------------|---------------------|-----------|--|-----------------|---------|
| A | Engine Room | lights each of | 16 | candle power requiring a total current of | 4 | Amperes |
| B | Saloons | lights each of | 16 | candle power requiring a total current of | 8 | Amperes |
| C | Shelter Deck | lights each of | 16 | candle power requiring a total current of | 7 | Amperes |
| D | 4 D. Filament | lights each of | 32 | candle power requiring a total current of | 4.8 | Amperes |
| E | | lights each of | | candle power requiring a total current of | | Amperes |
| | 1 Mast head light with | double filament | 32 | lamps each of | 1.2 | Amperes |
| | 2 Side light with | one double filament | 32 | lamps each of | 1.2 | Amperes |
| | 4 Gangway | lights of | 3.32 C.P. | candle power, <i>each</i> incandescent <i>all</i> lights | 12.32 C.P. Lamp | |

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

Where are the switches controlling the masthead and side lights placed *on Steering or Navigation Bridge*

DESCRIPTION OF CABLES.

| | | | | | | | | |
|-----------------------------|------|-----------------------|----|-------------|----|------------------|------|------------------------------------|
| Main cable carrying | 75.6 | Amperes, comprised of | 19 | wires, each | 16 | L.S.G. diameter, | .320 | square inches total sectional area |
| Branch cables carrying | 20.6 | Amperes, comprised of | 7 | wires, each | 18 | L.S.G. diameter, | .144 | square inches total sectional area |
| Branch cables carrying | 20.6 | Amperes, comprised of | 7 | wires, each | 18 | L.S.G. diameter, | .144 | square inches total sectional area |
| Leads to lamps carrying | 6.4 | Amperes, comprised of | 3 | wires, each | 20 | L.S.G. diameter, | .078 | square inches total sectional area |
| Cargo light cables carrying | 6.4 | Amperes, comprised of | 3 | wires, each | 20 | L.S.G. diameter, | .078 | square inches total sectional area |

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Cables 2500 Mv grade made by Siemens Bros & Co Woolwich, Insulation Pure & Vulcanized Rubber whole Vulcanized together Tape braided & compounded, Mechanical protection in Engine Room W.I. & Steel Pipe Saloons &c hard Wood Casings
 Joints in cables, how made, insulated, and protected *No joints made all work done on loop in and out system*

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 *No. 11 in Bulkhead*

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 *W.I. & Steel Pipe in E. Room and on Deck, Hard Casings in Saloons all Pipes and Casings Painted, Enamelled or Galvanized*

