

## REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 22923

Port of *Hull* — Date of First Survey *July 11<sup>th</sup>* Date of Last Survey *Aug 20<sup>th</sup> 1910* No. of Visits *8*.  
 No. in Reg. Book *2946* on the *Iron* Steel *S.S. Brittany* Port belonging to *Messrs Earle & Co*  
 Built at *Hull* By whom *Messrs Earle & Co* When built *1910*.  
 Owners *London, Brighton & S. Coast Ry. Co.* Owners' Address *London & Newham*  
 Yard No. *592* Electric Light Installation fitted by *Messrs Clarke Chapman & Co* When fitted *1910*.

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

*The single cylinder double acting open type vertical Engine direct coupled to a continuous current compound wound dynamo*  
 Capacity of Dynamo *75* Amperes at *100* Volts, whether continuous or alternating current *Continuous*  
 Where is Dynamo fixed *in Engine room* Whether single or double wire system is used *Double*  
 Position of Main Switch Board *Near dynamo* having switches to groups *A.B.C.D.* of lights, &c., as below  
 Positions of auxiliary switch boards and numbers of switches on each *Each light & groups of lights provided with switches as required*  
 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 vessel is wired on the double wire system are cut outs fitted to both flow and return wires of 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 *Yes on main S. Board*  
 Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases *Yes, slate & porcelain*  
 Total number of lights provided for *78-16cp* arranged in the following groups:—  

A	<i>Projector</i>	lights each of	<i>2500</i>	candle power requiring a total current of	<i>15</i>	Amperes
B	<i>40</i>	lights each of	<i>16</i>	candle power requiring a total current of	<i>74</i>	Amperes
C	<i>26</i>	lights each of	<i>16</i>	candle power requiring a total current of	<i>15.6</i>	Amperes
D	<i>12</i>	lights each of	<i>16</i>	candle power requiring a total current of	<i>7.2</i>	Amperes
E	<i>—</i>	lights each of	<i>—</i>	candle power requiring a total current of	<i>—</i>	Amperes
<i>2</i>	<i>Mast head light with</i>	<i>1</i> lamp each of	<i>32</i>	candle power requiring a total current of	<i>1.2</i>	Amperes
<i>2</i>	<i>Side light with</i>	<i>1</i> lamp each of	<i>32</i>	candle power requiring a total current of	<i>1.2</i>	Amperes
<i>2</i>	<i>Cargo lights of</i>	<i>6-16</i>		candle power, whether incandescent or arc lights	<i>incandescent</i>	

 If arc lights, what protection is provided against fire, sparks, &c. *none fitted*  
 Where are the switches controlling the masthead and side lights placed *in wheelhouse*

## DESCRIPTION OF CABLES.

Main cable carrying	<i>75</i>	Amperes, comprised of	<i>19</i>	wires, each	<i>14</i>	L.S.G. diameter, <i>.0937</i> square inches total sectional area
Branch cables carrying	<i>15</i>	Amperes, comprised of	<i>7</i>	wires, each	<i>17</i>	L.S.G. diameter, <i>.0169</i> square inches total sectional area
Branch cables carrying	<i>74</i>	Amperes, comprised of	<i>7</i>	wires, each	<i>15</i>	L.S.G. diameter, <i>.0280</i> square inches total sectional area
Leads to lamps carrying	<i>6</i>	Amperes, comprised of	<i>1</i>	wires, each	<i>18</i>	L.S.G. diameter, <i>.0081</i> square inches total sectional area
Cargo light cables carrying	<i>36</i>	Amperes, comprised of	<i>176</i>	wires, each	<i>38</i>	L.S.G. diameter, <i>.00502</i> square inches total sectional area

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

*Vulcanized india rubber, taped and braided. Lead covered in casing for accommodation. Steel armoured where exposed*  
 Joints in cables, how made, insulated, and protected *no joints except mechanical ones*  
 Are all the joints of cables thoroughly soldered, resin only having been used as a flux *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, no*  
 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 *Clipped up & underside of deck. Lead covered & armoured cables*