

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 5956

Port of Belfast Date of First Survey June 24th Date of Last Survey July 3rd No. of Visits 5
 No. in Reg. Book 5 on the Iron Steam Port belonging to Liverpool
 Built at Belfast By whom Harland & Wolff When built 1905
 Owners J. B. McKelvey Owners' Address Liverpool
 Yard No. 369 Electric Light Installation fitted by W. H. Allen & Son When fitted 1905

DESCRIPTION OF DYNAMO, ENGINE, ETC.

2 engines having cylinders 6" diameter x 6" stroke, 2 dynamos multipolar type compound wound.
 Capacity of Dynamo 60 Amperes at 100 Volts, whether continuous or alternating current continuous
 Where is Dynamo fixed on starting platform, starboard side
 Position of Main Switch Board on bulkhead over dynamos having switches to groups A, B, C, D, E. of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each —

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 — 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 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 100 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
 Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases yes

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

Group	Description	Number of Lights	Candle Power	Current (Amperes)
A	Accom + Signals ³⁸ lights each of	16	22.8	Amperes
B	Engine Room 42 lights each of	16	25.2	Amperes
C	Forecastle 6 lights each of	16	3.6	Amperes
D	Poop 18 lights each of	16	10.8	Amperes
E	Cargo as below lights each of			Amperes
	2 Mast head lights with 1 lamp each of	32	1.2	Amperes
	* 2 Side light with 1 lamp each of	32	1.2	Amperes
	4 Cargo lights each of 8	16	16	16 candle power, whether incandescent or are lights incandescent.

If arc lights, what protection is provided against fire, sparks, &c. Two arc lamps, included in Surg Canal Plant totally enclosed in lanterns with glass sides protected by wire netting
 Where are the switches controlling the masthead and side lights placed in Chart House

DESCRIPTION OF CABLES.

Main cable carrying 60 Amperes, comprised of 19 wires, each 16 L.S.G. diameter, .0624 square inches total sectional area
 Branch cables carrying 22.8 Amperes, comprised of 7 wires, each 16 L.S.G. diameter, .0229 square inches total sectional area
 Branch cables carrying 25.2 Amperes, comprised of 19 wires, each 18 L.S.G. diameter, .035 square inches total sectional area
 Branch cables carrying 10.8 Amperes, comprised of 4 wires, each 18 L.S.G. diameter, .0129 square inches total sectional area
 Leads to lamps carrying 4 Amperes, comprised of 7 wires, each 22 L.S.G. diameter, .0043 square inches total sectional area
 Cargo light cables carrying 4.8 Amperes, comprised of 145 wires, each 38 L.S.G. diameter, .0043 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

The conductor is insulated with two layers Pure Para Rubber, then one layer vulcanizing rubber, the whole vulcanized together + finally taped + braided, wires in machinery spaces after vulcanizing are lead covered sewed + spirally armoured
 Joints in cables, how made, insulated, and protected thoroughly soldered, insulated with two layers pure rubber and two layers prepared tape + varnished with G.I. wires.

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
 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 in strong wood casing

