

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 7978

Port of Belfast Date of First Survey 9th May 1918 Date of Last Survey 27th May 1918 No. of Visits 6
 No. in Reg. Book on the Iron or Steel S.S. War Lenuir Port belonging to London
 Built at Belfast By whom Harland & Wolff L^{td} When built 1918
 Owners The Shipping Controller Owners' Address
 Yard No. 532 Electric Light Installation fitted by Harland & Wolff L^{td} When fitted 1918

DESCRIPTION OF DYNAMO, ENGINE, ETC.

One Enclosed, forced lubrication single cylinder engine & dynamo with
 Cylinder 5 1/2 x 5 " Stroke 520 R.P.M.

Capacity of Dynamo 100 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 in Engine Room 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 One in Chart Room containing 7 switches

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 yes

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 yes

Are the fuses of non-oxidizable metal yes and constructed to fuse at an excess of 100 per cent over the normal current

Are all fuses 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 fuses constructed of incombustible materials and fitted on incombustible bases yes

Total number of lights provided for 157 arranged in the following groups:—

A Aft. Accom 30 lights each of 10 candle power requiring a total current of 15 Amperes

B Midship 53 lights each of 32 C.P. candle power requiring a total current of 15.9 Amperes

C Navigation 4 lights each of 2 1/2 or 32 C.P. to suit war regulations candle power requiring a total current of 6.0 Amperes

D Cargo etc 32 lights each of 10 C.P. + 2 lights of 32 candle power requiring a total current of 18.4 Amperes

E Engines 32 lights each of 10 C.P. candle power requiring a total current of 16 Amperes

1 Mast head light with 1 lamp each of 2 1/2 or 32 to suit war regulations candle power requiring a total current of 1.2 Amperes

2 Side light with 1 lamp each of 5, 8, or 32 candle power requiring a total current of 1.2 Amperes

5 Cargo lights of 96 candle power, whether incandescent or arc lights incandescent

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

Where are the switches controlling the masthead and side lights placed In Chart Room

DESCRIPTION OF CABLES.

Main cable carrying 18.4 Amperes, comprised of 7 wires, each 10 S.W.G. diameter, .022 square inches total sectional area

Branch cables carrying Amperes, comprised of wires, each S.W.G. diameter, square inches total sectional area

Branch cables carrying 4.2 Amperes, comprised of 1 wires, each 14 S.W.G. diameter, .00503 square inches total sectional area

Leads to lamps carrying 1.8 Amperes, comprised of 1 wires, each 17 S.W.G. diameter, .00246 square inches total sectional area

Cargo light cables carrying 3 Amperes, comprised of 108 wires, each 38 S.W.G. diameter, .00503 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Cables & branch wiring exposed are 600 megohm 6 M. A. grade vulcanised india rubber armoured & white braided, also 1/2 A.P. 254 lead covered cable

Joints in cables, how made, insulated, and protected joints made in W.I. junction boxes on decks & porcelain junction boxes with iron protecting cover in Engine Room

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 Cables clipped direct to Bulkhead & protected by Armouring & braiding in Engine Room, Galley, Crews quarters & lead covered in accommodation

