

REPORT ON ELECTRIC LIGHTING INSTALLATION.

No. 82660

Port of Liverpool Date of First Survey Aug 8th Date of Last Survey Aug 18th No. of Visits 5
 No. on the Iron or Steel T.S.S. Seythia Port belonging to Liverpool
 Reg. No. 1679 Built at Barrow in Furness By whom Beckers Ltd When built 1921
 Owners Cunard S.S. Co Owners' Address Cunard Building Liverpool
 Card No. 493 Electric Light Installation fitted by Beckers Ltd When fitted 1921

DESCRIPTION OF DYNAMO, ENGINE, ETC.

See Barrow Report 1895.

Capacity of Dynamo Amperes at Volts, whether continuous or alternating current
 Where is Dynamo fixed Whether single or double wire system is used
 Position of Main Switch Board having switches to groups of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each

If fuses are fitted on main switch board to the cables of main circuit 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 and to each lamp circuit
 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
 Are the fuses of non-oxidizable metal and constructed to fuse at an excess of per cent over the normal current
 Are all fuses fitted in easily accessible positions Are the fuses of standard dimensions 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
 Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases

Total number of lights provided for arranged in the following groups:—
 A lights each of _____ candle power requiring a total current of _____ Amperes
 B lights each of _____ candle power requiring a total current of _____ Amperes
 C lights each of _____ candle power requiring a total current of _____ Amperes
 D lights each of _____ candle power requiring a total current of _____ Amperes
 E lights each of _____ candle power requiring a total current of _____ Amperes
 Mast head light with lamps each of candle power requiring a total current of _____ Amperes
 Side light with lamps each of candle power requiring a total current of _____ Amperes
 Cargo lights of candle power, whether incandescent or arc lights

If arc lights, what protection is provided against fire, sparks, &c.
 Where are the switches controlling the masthead and side lights placed

DESCRIPTION OF CABLES.

Main cable carrying Amperes, comprised of _____ wires, each _____ S.W.G. diameter, _____ 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 Amperes, comprised of _____ wires, each _____ S.W.G. diameter, _____ square inches total sectional area
 Leads to lamps carrying Amperes, comprised of _____ wires, each _____ S.W.G. diameter, _____ square inches total sectional area
 Cargo light cables carrying Amperes, comprised of _____ wires, each _____ S.W.G. diameter, _____ square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Joints in cables, how made, insulated, and protected
 Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances Are all joints in accessible positions, none being made in bunks, 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
 How are the cables led through the ship, and how protected



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DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible ✓

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture ✓

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat ✓

What special protection has been provided for the cables near boiler casings ✓

What special protection has been provided for the cables in engine room ✓

How are cables carried through beams ✓ through bulkheads, &c. ✓

How are cables carried through decks ✓

Are any cables run through coal bunkers ✓ or cargo spaces ✓ or spaces which may be used for carrying cargo, stores, or baggage ✓

If so, how are they protected ✓

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage ✓

If so, how are the lamp fittings and cable terminals specially protected ✓

Where are the main switches and fuses for these lights fitted ✓

If in the spaces, how are they specially protected ✓

Are any switches or fuses fitted in bunkers ✓

Cargo light cables, whether portable or permanently fixed ✓ How fixed ✓

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel ✓

How are the returns from the lamps connected to the hull ✓

Are all the joints with the hull in accessible positions ✓

Is the installation supplied with a voltmeter ✓ and with an amperemeter ✓, fixed ✓

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and fuses fitted in positions not liable to the accumulation of petroleum vapour or gas ✓

Are any switches, fuses, or joints of cables fitted in the pump room or companion ✓

How are the lamps specially protected in places liable to the accumulation of vapour or gas ✓

The copper used is guaranteed to have a conductivity of not less than that of the Engineering Standards Committee's standard, and the wires are protected by tinning from the sulphur compounds present in the insulating material.

Insulation of cables is guaranteed to have a resistance of not less than _____ megohms per statute mile at 60° Fahrenheit after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volts and while the cable is still immersed.

The foregoing statements are a correct description of the Electric Light installation fitted by us on this vessel and we declare that it is at this date in good order and safe working condition.

Electrical Engineers Date _____

COMPASSES.

Distance between dynamo or electric motors and standard compass ✓

Distance between dynamo or electric motors and steering compass ✓

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
✓			
✓			
✓			

Have the compasses been adjusted with and without the electric installation at work at full power ✓

The maximum deviation due to electric currents, etc., was found to be _____ degrees on _____ course in the case of the standard compass and _____ degrees on _____ course in the case of the steering compass. ✓

Builder's Signature. Date _____

GENERAL REMARKS. This installation, for particulars of which see Bro R/L 1895, has now been completed, the wiring in the 1st & 2nd class passages, accommodation having been carried out, governing gear on the main turbo generator overhauled & adjusted & cut out and governing tests found satisfactory. The vessel is now eligible in my opinion for record of Elec Light in Register book. J. Milton.

It is submitted that this vessel is eligible for the Record of Elec Light R/L 1895
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL. - 6 SEP 1921
 Electric Light.

FRI MAR 24 1922

JRM

