

DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible yes

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

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

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

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

How are cables carried through beams conduit through bulkheads, &c. conduit & stuffing boxes

How are cables carried through decks conduit and stuffing boxes

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

If so, how are they protected conduit

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage no

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 no

Cargo light cables, whether portable or permanently fixed portable 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 yes, and with an amperemeter yes, fixed switchboard

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 600 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.

UNION IRON WORKS COMPANY,
By Loaganis Electrical Engineers Date Apr. 17th 1917.
Engineer-in-Chief.

COMPASSES.

Distance between dynamo or electric motors and standard compass 100 ft.

Distance between dynamo or electric motors and steering compass 110 ft.

The nearest cables to the compasses are as follows:—

| | | | | | | |
|------------------|------------|---------|----------|----------------------------|----------|----------------------------|
| A cable carrying | <u>1/4</u> | Amperes | <u>1</u> | feet from standard compass | <u>1</u> | feet from steering compass |
| A cable carrying | <u>20</u> | Amperes | <u>6</u> | feet from standard compass | <u>4</u> | feet from steering compass |
| 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 yes

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

UNION IRON WORKS COMPANY,
By Loaganis Builder's Signature. Date Apr. 17th 1917.
Engineer-in-Chief.

GENERAL REMARKS. This installation has been fitted in accordance with the Rules, tested under working conditions and found in order, and the vessel is eligible in our opinion to have record of **ELECTRIC LIGHT** in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. Elec. light.

J.W. 19/5/17. J. Blackitt + L. B. Bateson.
Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

New York APR 26 1917



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Im. 311. Transfer.