





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 *Steel wire armouring and braiding or fitted in conduit as convenient.*

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *These places avoided.*

What special protection has been provided for the cables near boiler casings *None so fitted.*

What special protection has been provided for the cables in engine room *Armoured or run in conduit as necessary.*

How are cables carried through beams — *in lead bushed holes* through bulkheads, &c. — *in packed glands or bushed holes.*

How are cables carried through decks — *in watertight deck tubes.*

Are any cables run through coal bunkers *No* or cargo spaces *No* or spaces which may be used for carrying cargo, stores, or baggage *Yes.*

If so, how are they protected *Lead covered and run in deck girders.*

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

If so, how are the lamp fittings and cable terminals specially protected *No switches or fuses in room; lamp fittings watertight*

Where are the main switches and fuses for these lights fitted *Above hatchway.*

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 *Double wire system.*

How are the returns from the lamps connected to the hull *Double wire system.*

Are all the joints with the hull in accessible positions *No joints*

Is the installation supplied with a voltmeter *Two; each 90-150 V.* and with an amperemeter *Two; each 0-300 A.* fixed *on 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 *Yes.*

Are any switches, fuses, or joints of cables fitted in the pump room or companion *No*

How are the lamps specially protected in places liable to the accumulation of vapour or gas *Gas-tight fittings*

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 *2500* 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.

FOR VICKERS LIMITED,

Electrical Engineers

Date *10th May 1920*

COMPASSES.

Distance between dynamo or electric motors and standard compass *232 feet*

Distance between dynamo or electric motors and steering compass *238 feet*

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
<i>0.3</i>	<i>15</i>	<i>5</i>	
<i>5.0</i>	<i>10</i>	<i>7</i>	

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.

FOR VICKERS LIMITED,

Builder's Signature.

Date *10th May 1920.*

GENERAL REMARKS.

*This installation has been efficiently fitted on board and on completion the Engines & Dynamos were tried under full load & found satisfactory.*

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

*JWD 20/5/20*

*John Houston.*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.