

REPORT ON ELECTRIC LIGHTING INSTALLATION.

FRI 23 AUG 1895

No. 13845 Port of Glasgow
 Name of Ship "Moyrre" Built at Glasgow When built 1895
 Reg. Book. _____
 Electric Light Installation fitted by W. C. Martin & Co. when fitted Aug 1895.

DESCRIPTION OF DYNAMO AND ENGINE.—

Direct acting engine coupled direct to compound wound dynamo

Capacity of Dynamo 65 Amperes at 100 Volts, whether continuous or alternating current

Where is Dynamo fixed Starting Platform Engine Room

LAMPS.—

Is vessel wired on single double wire system Total number of lights 86 arranged in the following groups:—

A	<u>71</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>42.6</u>	Amperes
B	<u>12</u>	lights each of	<u>32</u>	candle power requiring a total current of	<u>14.4</u>	Amperes
C	<u>3</u>	lights each of	<u>64</u>	candle power requiring a total current of	<u>7.2</u>	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
1		Mast head light with <u>double</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>2.4</u>	Amperes
2		Side light with <u>double</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>4.8</u>	Amperes
4		Cargo lights of <u>3 lamps each</u>	<u>32</u>	candle power, <u>whether</u> incandescent <u>or</u> arc lights		

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

SWITCHES AND CUT-OUTS—

Position of Main Switch Board starting platform having switches to groups 29, 30 & 27 of lights as above

Positions of other switch boards and numbers of switches on each none.

If cut outs are fitted to main circuit yes and to each auxiliary circuit yes

and at each position where cable is branched or reduced in size yes

If vessel is wired on the double wire system are cut outs fitted on each wire yes

Are the cut outs of non-oxidizable metal yes and constructed to fuse at an excess of 50 per cent over the normal current

Are all cut outs fitted in easily accessible positions yes

In vessels built for carrying petroleum, are all switches and cut-outs fitted in positions not liable to the accumulation of petroleum vapour or gas —

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

Are all switches and cut-outs constructed of unflammable materials and fitted on unflammable bases yes

DESCRIPTION OF CABLES.—

Main cable carrying 17.4 Amperes, comprised of 19 wires, each 1/16 legal standard wire gauge diameter

Branch cables carrying .6 Amperes, comprised of 1 wires, each 1/16 gauge diameter

Branch cables carrying — Amperes, comprised of — wires, each — meter

Leads to lamps .6 Amperes, comprised of 1 wires, each —

Cargo light cables carrying 3.6 Amperes, comprised of 34.6 wires, each —

The copper used has a conductivity of 98 per cent. that of pure copper.

Insulation of cables is guaranteed to have a resistance of not less than 1000

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13875 fgs

DESCRIPTION OF INSULATION, PROTECTION, &c.—

Pure rubber insulation, taped, braided, vulcanised covered with hemp & armoured with galvanised iron wire

Joints in cables, how made, insulated, and protected

no joints

Are all the joints of cables thoroughly soldered, resin only having been used as a flux

none

How are cables led throughout the ship

special armoured wire

What special protection has been provided for the cables in open alleyways

special armoured wire

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 decks

galvanised iron tubes and through bulkheads

galvanised iron tubes

Are any cables run through coal bunkers

no

or cargo spaces

yes

If so, how are they protected

Are any lamps fitted in coal bunkers or spaces which may be used for cargo

alleyways only

If so, how are they specially protected

Cast iron shutters

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

TESTING, &c.—

Has the installation been thoroughly tested to its full capacity during a trial of

hours' duration

The insulation resistance of the whole installation was not less than

.133

meg ohms

The installation is

supplied with a voltmeter and

an amperemeter fixed

on Switchboard

General Remarks.—

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.

W. C. Martin & Co

Electrical Engineers

Date

20/8/95.

COMPASSES.—

Distance between dynamo and standard compass

130 ft

Distance between dynamo and steering compass

120 ft.

The nearest cables to the compasses are as follows:—

A cable carrying

1.8

Amperes

about 8

feet from standard compass

8

feet from steering compass

A cable carrying

Amperes

feet from standard compass

feet from steering compass

A cable carrying

Amperes

feet from standard compass

feet from steering compass

Have the compasses been

electric installation at work at full power

yes

The maximum

found to be

nil

degrees on

course in the case of the standard compass

course in the case of the steering compass.

Builder's Signature

Date

21/8/95

Surveyor's Signature

Date

22 August 1895



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