

REPORT ON ELECTRIC LIGHTING INSTALLATION. No.

of Galveston, Texas. Date of First Survey March-1918. Date of Last Survey Aug-1918. No. of Visits 24

on the ~~Iron~~ Steel Wood Screw Steamer "WAR MARVEL" Port belonging to London

Built at Orange, Texas. By whom National Shipbuilding Co. When built 1918.

Cunard Line. Owners' Address Liverpool & London.

No. 7 Electric Light Installation fitted by Lund & Miller. When fitted 1918.

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Two 5 K. W. direct connected generating sets of the General Electric
e:- Engine made by the American Blower Co. Type A.

Volts of Dynamo 42 Amperes at 110 Volts, whether continuous or alternating current continuous.

is Dynamo fixed On special platform above main engines. Whether single or double wire system is used Double wired system

of Main Switch Board On bulkhead by dynamo's having switches to groups of lights, &c., as below

ons of auxiliary switch boards and numbers of switches on each

are fitted on main switch board to the cables of main circuit Yes. and on each auxiliary switch board to the cables of auxiliary

cuits Yes. and at each position where a cable is branched or reduced in size Yes. and to each lamp circuit Yes

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.

fuses of non-oxidizable metal Yes. and constructed to fuse at an excess of 10% per cent over the normal current

fuses fitted in easily accessible positions Yes. Are the fuses of standard dimensions Yes. If wire fuses are used

permanent instructions fitted on or near each switch board giving particulars of proper size of fuse for each circuit Yes.

switches and fuses constructed of incombustible materials and fitted on incombustible bases Yes.

umber of lights provided for 100 arranged in the following groups :-

14	lights each of	100	candle power requiring a total current of	3 1/4	Amperes
12	lights each of	96	candle power requiring a total current of	3	Amperes
12	lights each of	96	candle power requiring a total current of	3	Amperes
12	lights each of	96	candle power requiring a total current of	3	Amperes
14	lights each of	100	candle power requiring a total current of	3 1/4	Amperes
Mast head light with	2 lamps each of	8	candle power requiring a total current of	1/4	Amperes
Side light with	4 lamps each of	8	candle power requiring a total current of	1/4	Amperes
Cargo lights of		40	candle power, whether incandescent or arc lights	incandescent.	

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

are the switches controlling the masthead and side lights placed In wheel house.

DESCRIPTION OF CABLES.

carrying 65 Amperes, comprised of 2 wires, each .232" S.W.G. diameter 41070 M. square inches total sectional area

cables carrying 14 Amperes, comprised of 2 wires, each .0800 S.W.G. diameter 17400 M. square inches total sectional area

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

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

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

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Two black threads woven in parallel braids and rubber covered.

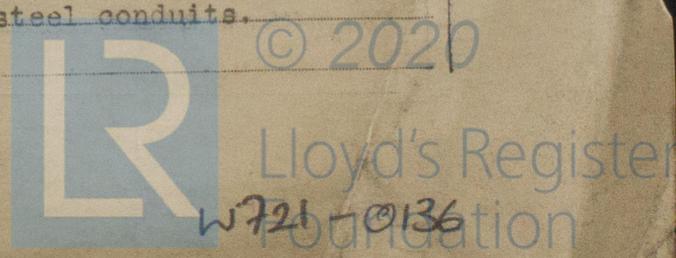
cables, how made, insulated, and protected Mechanical splice made then soldered; a layer of rubber tape
ayers of friction tape.

joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances Yes. Are all joints in accessible

ons, none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage

any joints in or branches from the cable leading from dynamo to main switch board No.

be cables led through the ship, and how protected All cables are lead through steel conduits.



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ods 2 1/2
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ayers of friction tape.
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any joints in or branches from the cable leading from dynamo to main switch board No.
be cables led through the ship, and how protected All cables are lead through steel conduits.
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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. They are in steel conduits and made water-tight.

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat In steel conduits.

What special protection has been provided for the cables near boiler casings In steel conduits.

What special protection has been provided for the cables in engine room In steel conduits.

How are cables carried through beams Not any through beams. through bulkheads, & through pipes & made water tight.

How are cables carried through decks Through pipes and made water-tight. ✓

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

If so, how are they protected By steel conduits and encased.

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 All switches and fuses are at switchboard.

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 A watertight outlet box on deck.

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 At 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 _____ 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.

John Dragon

Electrical Engineers

Date _____

COMPASSES.

Distance between dynamo or electric motors and standard compass 30 ft.

Distance between dynamo or electric motors and steering compass 35 ft.

The nearest cables to the compasses are as follows:—

A cable carrying	$\frac{1}{4}$	Amperes	6"	feet from standard compass	6"	feet from steering compass
A cable carrying	2	Amperes	6'	feet from standard compass	2'	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 _____

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

_____ course in the case of the steering compass.

NATIONAL SHIP BUILDING CO., OF TEXAS

Carl Tutschulte

Builder's Signature.

Date

October 17th 1918.

GENERAL REMARKS. The dynamo's, switchboard and all wiring were installed under inspection and when completed the dynamo's and all lights were tested out on several occasions and found to be very satisfactory.

A 2 K. W. Machine was installed for the Wireless.

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

J.W.D.
19/11/18

J. B. Grant
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Elec light

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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