

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 2602.

Port of Philadelphia Date of First Survey 2nd April 1917 Date of Last Survey 18 June 1917 No. of Visits 13
 No. in Reg. Book on the Iron or Steel S. S. Edward L. Doherty Junior Port belonging to Los Angeles
 Built at Camden - N. J. By whom New York Ship Corp. When built 1917
 Owners Petroleum Transport Co Owners' Address 120 Broadway - New York City
 Yard No. 170 Electric Light Installation fitted by New York Ship Corp. When fitted 1917

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Consists of 2-20 K.W. Single Vertical Marine Engine, direct connected, 110 volts.

Capacity of Dynamo 182 Amperes at 110 Volts, whether continuous or alternating current direct

Where is Dynamo fixed Engine Room Gallery - Aft. Whether single or double wire system is used double

Position of Main Switch Board Between Generators Having switches to groups of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each A-Engine Room (8) - A'-Boiler Room (6) - B Fore Hold & Peak (8) - B'-Mid-Deck House (14) - C-Quarters under Poop (8) - C'-Quarters above-port (8) - D-Quarters above-stbd (8).

If fuses are fitted on main switch board to the cables of main circuit Yes and on each auxiliary switch board to the cables of auxiliary circuits Yes and at each position where a cable is branched or reduced in size Yes and to each lamp circuit Yes

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 Yes

Are the fuses of non-oxidizable metal Yes and constructed to fuse at an excess of 100% per cent over the normal current

Are all fuses fitted in easily accessible positions Yes Are the fuses of standard dimensions Yes 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 Yes

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

Total number of lights provided for 250 arranged in the following groups:—

A	34	lights each of	16 C.P.	candle power requiring a total current of	17	Amperes
A'	19		16 C.P.		9.5	
B	24	lights each of	16 C.P.	candle power requiring a total current of	12	Amperes
B'	79		16 C.P.		39.5	
C	42	lights each of	16 C.P.	candle power requiring a total current of	21	Amperes
C'	16		16 C.P.		8	
D	24	lights each of	16 C.P.	candle power requiring a total current of	12	Amperes
E		lights each of		candle power requiring a total current of		Amperes
1		Mast head light with 2 lamps each of	16	candle power requiring a total current of	1	Amperes
1		Side light with 2 lamps each of	16	candle power requiring a total current of	1	Amperes
6		Cargo lights of	16	candle power, whether incandescent or arc lights	Incandescent	

If arc lights, what protection is provided against fire, sparks, &c. no arc lamps

Where are the switches controlling the masthead and side lights placed Tell Tale Panel - Pilot House

DESCRIPTION OF CABLES.

Main cable carrying 181 Amperes, comprised of 6/16 wires, each .0032 S.W.G. diameter, .1952 square inches total sectional area
 Branch cables carrying 40 Amperes, comprised of 6/19 wires, each .0013 S.W.G. diameter, .0793 square inches total sectional area
 Branch cables carrying 12 Amperes, comprised of 7/19 wires, each .0016 S.W.G. diameter, .0112 square inches total sectional area
 Leads to lamps carrying .5 Amperes, comprised of 7/23 wires, each .0005 S.W.G. diameter, .0035 square inches total sectional area
 Cargo light cables carrying 3 Amperes, comprised of 7/23 wires, each .0005 S.W.G. diameter, .0035 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Leaded & Armored Cable used throughout.

Joints in cables, how made, insulated, and protected Good mechanical joint, soldered, taped, and painted with insulating compound.

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances Yes Are all joints in accessible positions, none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage Yes

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

How are the cables led through the ship, and how protected Leaded and armored.



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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

Armored Cable

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

Armored Cable

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

Armored Cable

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

Armored Cable

How are cables carried through beams

in lead Bushings

through bulkheads, &c. in stuffing tubes

How are cables carried through decks

in stuffing 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

No

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

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

No

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 on sw'bd.

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

Special Vapor Proof Lamps

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.

A. A. Hornor

Electrical Engineers

Date 29 June 1917

COMPASSES.

Distance between dynamo or electric motors and standard compass

Approx. 200'

Distance between dynamo or electric motors and steering compass

Approx. 175'

The nearest cables to the compasses are as follows:—

A cable carrying

5

Amperes

3

feet from standard compass

1

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 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

all

course in the case of the

standard compass and

Nil

degrees on

all

course in the case of the steering compass.

New York Shipbuilding Corporation

H. L. Laguarda

Builder's Signature.

Date 29th June 1917

GENERAL REMARKS.

This installation has been well fitted, and proved satisfactory on trial

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

J. W. D. 13/8/17

A. T. Thomas

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

J. W. D. Elec. Light

New York JUL 24 1917



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