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REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 3229

Port of Philadelphia Date of First Survey 3/10/18 Date of Last Survey 2/3/19 No. of Visits 2
 No. in Reg. Book on the Iron or Steel 1/3 "SCHODACK" Port belonging to Philadelphia
 Built at Philadelphia Pa. By whom American International Corp. When built 1919
 Owners United States Shipping Board Owners' Address Washington D.C.
 Yard No. 512 Electric Light Installation fitted by American International Corp. When fitted 1919

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Generators-2-15 K.W. Gen. Elec. Co., 125 volts, driven by vertical marine type engines
 60-125 lb. steam pressure

Capacity of Dynamo 2 at 120 Amperes at 125 each Volts, whether continuous or alternating current continuous

Where is Dynamo fixed Engine room St'rbd on Dynamo flt Whether single or double wire system is used double wire

Position of Main Switch Board Engine rm dynamo Flat having switches to groups 7 panels of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each Panel G-Engine & Boiler Room 8-cir; Panel D

Bridge deck port-6 cir; Panel C-Bridge deck starboard 4 cir; Panel B-Officers Qtrs-9cir

Panel A-Forecastle-4 cir; Panel F-P00p-6cir; Panel H- Pilot House- 6 cir

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-oxidisable metal yes and constructed to fuse at an excess of 125 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 All Cartridge fuses

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

Total number of lights provided for 245 arranged in the following groups :-

A Forecastle 13 lights each of 25 to 200 Watts candle power requiring a total current of 8.04 amperes

B Officers Qtrs 61 lights each of 10 " 200 " candle power requiring a total current of 28.7 amperes

C St'dbd Qtrs 25 lights each of 25 to 200 " candle power requiring a total current of 12.5 amperes

D Port Qtrs 43 lights each of 25 to 200 " candle power requiring a total current of 20.5 amperes

F-P00p 35 " " 10 to 200 " candle power requiring a total current of 17.7

E G-Engine & B 62 lights each of 25 to 100 " candle power requiring a total current of 33.0 amperes

H-Pilot House 3 " " 50 to 4000 " (Includes searchlight) 37.3

1 Mast head light with 1 lamps each of 50 Watt candle power requiring a total current of 0.54 amperes

2 Side light with 1 lamps each of " " candle power requiring a total current of 0.9 amperes

13 Cargo lights of 200 watts candle power, whether incandescent or arc lights incandescent

If arc lights, what protection is provided against fire, sparks, &c. Are for searchlight only with enclosed carbons

Where are the switches controlling the masthead and side lights placed Panel H Wheel House

DESCRIPTION OF CABLES.

Main cable carrying 120 Amperes, comprised of Stranded, each #00 S.W.G. diameter, 0.104 square inches total sectional area

Branch cables carrying 50 Amperes, comprised of " wires, each #2 S.W.G. diameter, 0.052 square inches total sectional area

Branch cables carrying 35 Amperes, comprised of " wires, each #6 S.W.G. diameter, 0.021 square inches total sectional area

Branch cables carrying 22 Amperes, comprised of " wires, each #10 S.W.G. diameter, 0.0082 square inches total sectional area

Leads to lamps carrying 18 Amperes, comprised of Solid wires, each #12 S.W.G. diameter, 0.0051 square inches total sectional area

Cargo light cables carrying 10 Amperes, comprised of " wires, each #14 S.W.G. diameter, 0.0032 square inches total sectional area

Cargo light cables carrying 10 Amperes, comprised of " wires, each #12 S.W.G. diameter, 0.0051 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

All lighting wires in galvanized conduit $\frac{1}{2}$ in. to $1\frac{1}{2}$ in dia.

#00, #2 #6 Rubber covered and braid code wire.

#10, #12, #14 " " single braid code wire

Joints in cables, how made, insulated, and protected In boxes at conduit (Use Benjamin C.I. Boxes) junction

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 Galvanized conduit from switchboard to fixture



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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

In water tight conduit with locknuts and washers at bulkheads

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

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

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

How are cables carried through beams Steel conduit in drilled holes through bulkheads, &c. with locknuts and washers

How are cables carried through decks " " with locknuts & washers

Are any cables run through coal bunkers no or cargo spaces yes or spaces which may be used for carrying cargo, stores, or baggage in steel conduit with guards

If so, how are they protected in steel conduit

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage not in cargo space

If so, how are the lamp fittings and cable terminals specially protected no lamps in cargo space no coal bunkers

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 " " " " " " " "

Cargo light cables, whether portable or permanently fixed Portable How fixed not fixed

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel double wire system used

How are the returns from the lamps connected to the hull double wire system no grounds

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 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 not oil carrier

How are the lamps specially protected in places liable to the accumulation of vapour or gas not oil carrier

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.

L. Murphy

Electrical Engineers

Date Mar 28, 1919.

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 40 Amperes 6 feet from standard compass 5 feet from steering compass

A cable carrying 4 Amperes 6 feet from standard compass 5 feet from steering compass

A cable carrying 2 Amperes 4 feet from standard compass 4 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 0 degrees on 0 course in the case of the

standard compass and 0 degrees on 0 course in the case of the steering compass.

G. I. Jamie

Builder's Signature.

Date 1919.

GENERAL REMARKS.

This electric lighting installation has been well fitted and proved satisfactory on trial

It is submitted that

this vessel is eligible for

THE RECORD. ELEC. LIGHT.

KED

Rel. 30.5.19.

J. Blalock
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Elec. Lt. New York MAY -7 1919