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REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 3506

of Philadelphia Date of First Survey May 6, 1919 Date of Last Survey Nov 3, 1919 No. of Visits 16
 on the ~~Iron~~ Steel S.S. "ICELAND" Port belonging to Philadelphia
 Built at Lechester - Pa By whom Merchants Ship Bldg Corp When built 1919
 United States Shipping Board Owners' Address Washington
 No. 349 Electric Light Installation fitted by Merchants Ship Bldg Corp When fitted 1919

DESCRIPTION OF DYNAMO, ENGINE, ETC.

10KW Compound wound Westinghouse generator direct connected to Westinghouse steam turbine
 Quantity of Dynamo 80 each Amperes at 125 Volts, whether continuous or alternating current continuous
 Is Dynamo fixed Dynamo room Whether single or double wire system is used double
 Location of Main Switch Board Dynamo room having switches to groups 13 of lights, &c., as below
 Locations of auxiliary switch boards and numbers of switches on each Forecastle 4 switches, officers quarters
 switches, quarters aft 2 switches.

Ises 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*
 Is sel 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 there permanent instructions fitted on or near each switch board giving particulars of proper size of fuse for each circuit *None used*
 Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases *Yes*

Number of lights provided for 130 arranged in the following groups:—
 Mess room 9 Comp. 15 32 candle power requiring a total current of 5 Amperes
 Room 7 photo. 25 lights each of 32 10 Amperes
 Quarters 3 24 32 candle power requiring a total current of 6 Amperes
 " 4 40 lights each of 32 2 Amperes
 " 2 25 32 candle power requiring a total current of 20 Amperes
 " 1 2 lights each of 32 16 Amperes
 Machine tools lights each of ✓ candle power requiring a total current of 25 Amperes
 Mast head light with 2 lamps each of 32 candle power requiring a total current of 1/4 Amperes
 Side lights with 2 lamps each of 32 candle power requiring a total current of 1/4 Amperes
 6 Cargo lights of 182 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 Tell Tale in Pilot House.

DESCRIPTION OF CABLES.

Cable carrying 90 Amperes, comprised of 7 wires, each 18 S.W.G. diameter, .0731 square inches total sectional area
 " 3 Amperes, comprised of 1 wire, each 12 S.W.G. diameter, .0081 square inches total sectional area
 " 20 Amperes, comprised of 7 wires, each 14 S.W.G. diameter, .0032 square inches total sectional area
 " 6 Amperes, comprised of 7 wires, each 16 S.W.G. diameter, .0138 square inches total sectional area
 to lamps carrying 1/16 3 Amperes, comprised of 1 wire, each 16 S.W.G. diameter, .0032 square inches total sectional area
 light cables carrying 2 Amperes, comprised of 40 wires, each 39 S.W.G. diameter, .0032 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Double braid 80% pure Para rubber covered wire
 Standard galvanized conduit.

In cables, how made, insulated, and protected All joints made in watertight junction boxes, ends
 are soldered, covered with rubber & linen tape, enclosed in iron
 with rubber joint and solid cover

Are 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 *No*

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

Are the cables led through the ship, and how protected All wiring led through conduit with lock nuts,
 red lead & canvas through decks & bulkheads.

