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REPORT ON ELECTRIC LIGHTING INSTALLATION.

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Port of BUENOS AIRES
~~La Plata~~
Date of First Survey _____ Date of Last Survey 14-9-1922 No. of Visits _____
No. in Reg. Book 54009 on the ~~Iron~~ Steel Twin Sc Sr "Bahia Blanca" Port belonging to Argentine Republic
Built at Hamburg Germany By whom Reiherstieg Schiffs Werfte Und Maschinen Fabrick..... When built 1912.
Owners Argentine Government, Owners' Address Buenos Aires - Argentine Republic
Yard No. 444 Electric Light Installation fitted by Not known, When fitted 1912.

DESCRIPTION OF DYNAMO ENGINE, ETC.

The Electric Plant is composed of TWO Dynamos Generators of 45.1 K.W. each, D.C., 300 R.P.M., coupled to a vertical piston steam engine compound, working at a steam pressure of 150 lbs.

Capacity of Dynamo 410 Amperes at 110 Volts, whether continuous or alternating current Direct current.

Where is Dynamo fixed In the Main Engine Room, Whether single or double wire system is used Single and double.

Position of Main Switch Board In the Main Engine Room close to dynamos. having switches to groups 5 of power and 7 of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each Eng. Room: 2 boards with 4 and 1 switch; Workshop: 1 board 18 switches; Alleyways Main Deck: 2 boards 42 switches; Forward Main Deck: 21 switches; Alleyways of Cargo Spaces Nos. 3 and 5: 4 boards 37 switches; Charthouse: 1 board 6 switches; Electrical Store: 1 board 1 switch.

If cut outs are fitted on main switch board to the cables of main circuit There are and on each auxiliary switch board to the cables of auxiliary circuits There are and at each position where a cable is branched or reduced in size all Aux-Sw. boards. and to each lamp circuit There is not.

If vessel is wired on the double wire system are cut outs fitted to both flow and return wires or cables of all circuits including lamp circuits _____

Are the cut outs of non-oxidizable metal They are made of brass nickel-plated. and constructed to fuse at an excess of 100 per cent over the normal current

Are all cut outs fitted in easily accessible positions They are. Are the fuses of standard dimensions They are. 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 There is a label on each case.

Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases In many instances are made of porcelain.

Total number of lights provided for 659 arranged in the following groups:—

A	90	lights each of	16	candle power requiring a total current of	17.00	Amperes
B	158	lights each of	16	candle power requiring a total current of	28.44	Amperes
C	104	lights each of	16	candle power requiring a total current of	18.72	Amperes
D	105	lights each of	16	candle power requiring a total current of	18.90	Amperes
E	108	lights each of	16	candle power requiring a total current of	19.44	Amperes
F	86	lights each of	16	c.p. requiring a total current	16.28	Amps.
G 2	Mast head light with 2 lamps each of	2	16	candle power requiring a total current of	0.72	Amperes
G 2	Side light with 2 lamps each of	2	16	candle power requiring a total current of	0.72	Amperes
16	Cargo lights of 4 lamps of 16			candle power, whether incandescent or arc lights	Incandescent.	

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

Where are the switches controlling the masthead and side lights placed They are placed in the Charthouse.

DESCRIPTION OF CABLES.

Main cable carrying 500 Amperes, comprised of N wires, each -- L.S.G. diameter, 0.387 square inches total sectional area
Branch cables carrying 20 Amperes, comprised of 7 wires, each -- L.S.G. diameter, 0.016 square inches total sectional area
Branch cables carrying 10 Amperes, comprised of 7 wires, each -- L.S.G. diameter, 0.008 square inches total sectional area
Leads to lamps carrying 5 Amperes, comprised of 1 wires, each -- L.S.G. diameter, 0.004 square inches total sectional area
Cargo light cables carrying 20 Amperes, comprised of N wires, each -- L.S.G. diameter, Flexible cord. square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

The cables are of two classes viz; Armoured cable with india-rubber insulation, lead-sheeted and, steel-taped, fixed by iron clips and brass screws for single wire system, and, for the double wire system is used electric insulated wire covered with a wooden guard.

Joints in cables, how made, insulated, and protected The joints for main branches are made by soldered terminals inside of metallic boxes and, for small branches are made by screws inside of metallic boxes but not soldered, with bases of porcelain.

Are all the joints of cables thoroughly soldered, resin only having been used as a flux 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 They are always situated in accessible position.

Are there any joints in or branches from the cable leading from dynamo to main switch board There is not any joint of that kind.

How are the cables led through the ship, and how protected The armoured cable are fixed to the hull by iron clips and screws at a distance of 20 c/m apart, and, the single electric insulated wire are fixed inside and lined with a wooden guard.