

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 19832

Port of *New York* Date of First Survey *15 Nov/20* Date of Last Survey *4 Jan/21* No. of Visits *4*
 No. in Reg. Book on the ~~Iron~~ or Steel *s/s* **SUWORDENGO** Port belonging to *Newark N. J.*
 Built at *Newark N. J.* By whom *Submarine Boat Corp.* When built *1920*
 Owners *Submarine Boat Corp.* Owners' Address *Newark N. J.*
 Yard No. *142* Electric Light Installation fitted by *Submarine Boat Corp.* When fitted *1920*

DESCRIPTION OF DYNAMO, ENGINE, ETC. *Two generators each direct driven by a vertical reciprocating engine (450 R.P.M.) Each unit capable of handling the load. Generators built by General Electric Co. Engines by Roy Engine Machine Co.*
 Capacity of Dynamos each *90* Amperes at *110* Volts, whether continuous or alternating current *continuous*
 Where is Dynamo fixed *Starboard side of engine room* Whether single or double wire system is used *double*
 Position of Main Switch Board *adjacent to dynamos* having switches to groups *A B C D E* of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each *Galley 8 switches, Officers Kitchen 6 switches*

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 *25* 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 arranged in the following groups:—

A	37	lights each of	25	candle power requiring a total current of	8 1/2	Amperes
B	29	lights each of	40	candle power requiring a total current of	10 1/2	Amperes
C	40	lights each of	40	candle power requiring a total current of	14 1/2	Amperes
D	39	lights each of	25	candle power requiring a total current of	9	Amperes
E	1 search	lights each of	4000	candle power requiring a total current of	35	Amperes
	2 Mast head light with 1 lamps each of	40	candle power requiring a total current of	1/3	Amperes	
	2 Side light with 1 lamps each of	40	candle power requiring a total current of	2/3	Amperes	
	12 Cargo lights of 4 lamps each 25 watts		candle power, whether incandescent or arc lights	incandescent		

If arc lights, what protection is provided against fire, sparks, &c. *no arc lights used.*
 Where are the switches controlling the masthead and side lights placed *in wheel house*

DESCRIPTION OF CABLES.

Main cable carrying *75* Amperes, comprised of *1* wires, each # *2* **B+S** S.W.G. diameter, *.052* square inches total sectional area
 Branch cables carrying *30* Amperes, comprised of *1* wires, each # *6* S.W.G. diameter, *.020* square inches total sectional area
 Branch cables carrying *20* Amperes, comprised of *1* wires, each # *8* S.W.G. diameter, *.013* square inches total sectional area
 Leads to lamps carrying *1/2* Amperes, comprised of *1* wires, each # *10* S.W.G. diameter, *.008* square inches total sectional area
 Cargo light cables carrying *10* Amperes, comprised of *1* wires, each # *14* S.W.G. diameter, *.003* square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

B+S Flexible steel cables throughout, metal mouldings in officers quarters & wheel house.
 Joints in cables, how made, insulated, and protected *no joints except at terminal boxes*
 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 *none*
 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 *cables led along under side of deck & securely clamped to same. These cables being armoured require no additional protection.*



