

ELECTRIC LIGHT INSTALLATION

S.S. GEORGE HAWLEY

DESCRIPTION OF WIRING

MAIN CABLES FROM DYNAMO TO SWITCHBOARD Carrying 68 Amperes. No. 00 Brown & Sharpe gauge comprised of 19 wires (6-No.11 B.& S.) and 13-No.12 B.& S.) .104 square inches Sectional Area. Main fuses 100 amps. There are 13 switches on Main switchboard as follows:-

DECK LIGHTS:- Main lead No.8 B.& S. comprised of 7 wires each No.16 B.& S. Total Sectional Area .013. Fuse 10 amps.
6 Portable single 16 cp lights are supplied to vessel. Portable cables are No.14 B.& S. stranded and strongly protected.

SIGNAL LIGHTS:- Main lead to tell tale board carrying 6 lights 32 cp Current 6 amps. No. 10 B.& S. stranded comprised of 7 wires each No. 18 B.& S. Sectional Area .008. Fuse 10 amps.
There are 6 switches on tell tale board, leads to each light (mastheads, sidelights and towing) No. 14 B.& S. single wire. Area .003 Fuses 5 amps.

A. UPPER DECK CABIN CIRCUIT:- Main lead to Auxiliary Switchboard carrying 28 lights 16 cp. Current 14 amp. No.8 B.& S. stranded Sectional Area .013 (see above) Fuse 35 amps.
There are 4 circuits on Auxiliary board. Maximum on any circuit 9 lamps Current 4 1/2 amps. All these circuits 14 B.& S. single wire Fuses 10 amps.

B. POOP DECK CABIN CIRCUITS:- Main lead to Auxiliary Switchboard carrying 22 lights 16 and 8 cp. Current 10 amps. No. 8 B.& S. stranded Sectional Area .013 (see above) Fuse 35 amps.
There are 4 circuits on Auxiliary board. Maximum on any circuit 9-16 and 8 cp. Current 4 amps. All these circuits No.14 B.& S. single wire. Fuses 10 amps.

C. FORECASTLE CIRCUIT:- Main lead to Auxiliary board carrying 9-16 cp lights. Current 4 1/2 amps. No. 10 B.& S. stranded Sectional Area .008 (see above) Fuse 10 amps.
There are 2 single pole switches on Auxiliary board. Maximum on circuit 7 lights 3 1/2 amps. Both leads No. 14 B.& S.

D. 2 LOWER DECK CIRCUITS:- Carrying 6 and 4- 16 cp lights. Maximum current 3 amps. Both circuits No. 14 B.& S. Fuses 10 amps.

E. 6 MACHINERY SPACE CIRCUITS:- 40-16 cp lights in all. Maximum on any circuit 10 lights. Current 5 amps. All leads No. 14 B. & S. single wire. Sectional Area .003. Fuses 10 amps.

braided fibre & carried in steel conduit throughout except in cabin
cabins 3/32 rubber insulation & carried in wooden mouldings

Joints in cables, how made, insulated, and protected

Soldered heavily taped & made in

