

# REPORT ON ELECTRIC LIGHTING INSTALLATION.

No. 6380.

Port of Belfast Date of First Survey June 28 Date of Last Survey Oct. 19 No. of Visits 13  
 No. 14 on the SS. Troquois Part belonging to Belfast  
 Reg. Book Belfast Built 1907 By whom Harland & Wolff L. When built 1907  
 Owners Anglo-American Oil Co. Ltd. Owners' Address London  
 Yard No. 3850 Electric Light Installation fitted by W. H. Allen & Son L. When fitted 1907

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

Two two-pole semi-enclosed compound-wound dynamos direct coupled to Curtis steam turbines

Capacity of Dynamo 200 Amperes at 125 Volts, whether continuous or alternating current continuous.

Where is Dynamo fixed in recess at aft end of stowage engine room main deck level

Position of Main Switch Board on bulkhead near dynamo having switches to groups A. B. C. D. E. F. G. H. of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each -

If cut outs 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 cut outs fitted to both flow and return wires or cables of all circuits including lamp circuits yes

Are the cut outs of non-oxidizable metal yes and constructed to fuse at an excess of 100 per cent over the normal current

Are all cut outs 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 cut-outs constructed of incombustible materials and fitted on incombustible bases yes

Total number of lights provided for 371 arranged in the following groups :-

A	33	lights each of	16	candle power requiring a total current of	14.85	Amperes
B	9	lights each of	16	candle power requiring a total current of	4.05	Amperes
C	45	" " " "	16	" " " "	20.25	"
D	54	lights each of	16	candle power requiring a total current of	24.30	Amperes
E	16	" " " "	16	" " " "	7.20	"
F	31	lights each of	16	candle power requiring a total current of	13.95	Amperes
G	27	" " " "	16	" " " "	12.15	"
H	90	lights each of	16	candle power requiring a total current of	40.50	Amperes
4	Mast head light with	1 lamp each of	32	candle power requiring a total current of	1.8	Amperes
2	Side light with	1 lamp each of	32	candle power requiring a total current of	.9	Amperes
10	Cargo lights	each of 6	16	candle power, whether incandescent or are lights	incandescent.	

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

Where are the switches controlling the masthead and side lights placed in wheel house on bridge.

## DESCRIPTION OF CABLES.

Main cable carrying	200	Amperes, comprised of	61	wires, each	16	L.S.G. diameter,	20	square inches total sectional area
Branch cables carrying	20	Amperes, comprised of	19	wires, each	16	L.S.G. diameter,	20	square inches total sectional area
Branch cables carrying	24	Amperes, comprised of	19	wires, each	16	L.S.G. diameter,	20	square inches total sectional area
Leads to lamps carrying	2.7	Amperes, comprised of	7	wires, each	20	L.S.G. diameter,	20	square inches total sectional area
Cargo light cables carrying	2.7	Amperes, comprised of	248	wires, each	38	L.S.G. diameter,	20	square inches total sectional area

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

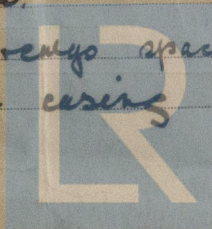
The conductor is tinned, covered with one layer pure Para rubber then two layers of vulcanizing rubber, the whole vulcanized together and finally taped and varnished.

Joints in cables, how made, insulated, and protected Thoroughly covered insulated with two layers pure Para rubber, two layers prepared tape then varnished.

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 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 Through summer tanks cargo space in steel armour insulated conduit, through living rooms in strong wood casing



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