

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 17587.

Port of Greenock Date of First Survey 28th Oct. 1919 Date of Last Survey 31 Dec. 19 No. of Visits 12
 No. in Reg. Book on the Iron or Steel 10 Dundrum Castle Port belonging to London
 Built at Greenock By whom Harland & Wolff When built 1919
 Owners Union Castle Line Owners' Address London
 Yard No. 572 Electric Light Installation fitted by Harland & Wolff Ltd When fitted 1919

DESCRIPTION OF DYNAMO, ENGINE, ETC.

One Steam Driven Generating Set. Engine by Shanks Ltd. Ardworth. Single cylinder 52" x 5" stroke 520 R.P.M. forced lubrication W.P. 100 lbs. Dynamos by Holms Ltd. Newcastle. Open type level compound.

Capacity of Dynamo 10 KW. 100 Amperes at 100 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed Starboard side Engine Room Whether single or double wire system is used Double

Position of Main Switch Board on Engineers New Bulkhead having switches to groups Six of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each No. Auxiliary Switchboards, Dis boxes only, fitted:-
1 in Wheel House, 1 in Bridge Deck House, 1 in Deck & 1 in Engine Room for Lighting Circuits.
2 Distribution Boxes in Engine casing for Cargo Circuits.

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 100 per cent over the normal current

Are all fuses fitted in easily accessible positions yes Are the fuses of standard dimensions 33 S.W.G. Copper. 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 224 arranged in the following groups:-

Group	Number of lights	Wattage per light	Candle power	Current (Amperes)
A	5	32	3.6	Amperes
B	156	16	93.6	Amperes
C	6	8	1.8	Amperes
D	36	40 Watts	14.4	Amperes
E	6	6 cp. for Morse	1.2	Amperes
2	Mast head light with 1 lamps each of 32		2.4	Amperes
2	Side light with 1 lamps each of 32		2.4	Amperes
11	Cargo lights of 96		Incandescent	
2	" " " 1000		" " 2 watt type	

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

No Arcs

Where are the switches controlling the masthead and side lights placed In Wheel House

DESCRIPTION OF CABLES.

Cable Description	Amperes	Wires	Wires each	S.W.G. diameter	Total sectional area
Main cable carrying	100	19	14	.094	square inches
Branch cables carrying	38.3	7	16	.022	square inches
Branch cables carrying	27	7	18	.0125	square inches
Leads to lamps carrying	3.6	1	17	.0025	square inches
Cargo light cables carrying	5	103	38	.003	square inches

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Main cables Two lead Stranded & Braided 600 Helgohm Grade
 Sub " in Machinery & Crew Space do do do do
 Sub " in Officers' Accommodation S.P. 257 17 Lead Covered

Joints in cables, how made, insulated, and protected Cables run over Open Decks viz:- Fore and After Well Decks are carried in Galv. Iron Tubes, cables being V.L.R. single core and are joined to twin core in joint boxes in Forecastle, Fore & Aft end of Smith's Accom., and Deck.

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances brass blocks and punchings 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.

How are the cables led through the ship, and how protected In perforated Steel Trays & Galv. Iron Pipeing



