





current protection devices been tested under working conditions *Yes* Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *Yes* Cables: Single, twin, ~~or multicore~~ *All types* are the cables insulated and protected as per Tables IV, V, X or XI of the Rules *Yes* If the cables are insulated otherwise than as per Rule, are they of an approved type *Yes* Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *8.1 Volts* Cable Sockets, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets *Yes* Paper Insulated and Varnished Cambric Insulated Cables. Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *Yes* Are cables in machinery spaces, galleys, lavatories, bathrooms and lavatories lead covered or run in conduit *H.R. type* Support and Protection of Cables, state how the cables are supported and protected *All cables b.b. braced, clipped to steel bays or steel to steel woodwork, run in conduit or supported on special wooden cleats, - protected when necessary.* If cables are run in wood casings, are the casings and caps secured by screws *Yes*, are the cap screws of brass *Yes*, are the cables run in separate grooves *Yes* If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII *H.R. clipped as per Rule.* Refrigerated Chambers, are the cables and fittings in accordance with the special requirements *Yes* Joints in Cables, state if any, and how made, insulated, and protected *None* Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *Yes* Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *Yes* state the material of which the bushes are made *Lead.* Earthing Connections, state what earthing connections are fitted and their respective sectional areas *All electrical apparatus efficiently earthed.* are their connections made as per Rule *Yes* Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *Yes* Emergency Supply, state position and method of control of the emergency supply and how the generator is driven *Yes* Navigation Lamps, are these separately wired *Yes*, controlled by separate switch and separate fuses *Yes*, are the fuses double pole *Yes* are the switches and fuses grouped in a position accessible only to the officers on watch *Yes* has each navigation lamp an automatic indicator as per Rule *Yes* Secondary Batteries, are they constructed and fitted as per Rule *Yes* Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight *Yes* are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected *In No. 2 & 3 holds - special w.r. fittings of heavy construction protected by frames & metal guards.* are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *Yes* how are the cables led *Yes* where are the controlling switches situated *Yes* are all fittings suitably ventilated *Yes* are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials *Yes* Heating and Cooking Appliances, are they constructed and fitted as per Rule *Yes* are air heaters constructed and fitted as per Rule *Yes* Searchlight Lamps, No. of *1*, whether fixed or portable *Yes* are their fittings as per Rule *Yes* Arc Lamps, other than searchlight lamps, No. of *1* are their live parts insulated from the frame or case *Yes* are their fittings as per Rule *Yes* Motors, are their working parts readily accessible *Yes* are the coils self-contained and readily removable for replacement *Yes* are the brushes, brush holders, terminals and lubricating arrangements as per Rule *Yes* are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *Yes* are they protected from mechanical injury and damage from water, steam or oil *Yes* are their axes of rotation fore and aft *Yes where possible* if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type *Yes* if not of this type, state distance of the combustible material horizontally or vertically above the motors *Yes* and *Yes* have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing *Yes* field and motor speed regulators, starters and controllers constructed and fitted as per Rule *Yes* Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *Yes* Ships carrying Oil having a Flash Point less than 150 F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings *Yes* are all fuses of the fitted cartridge type *Yes* are they of an approved type *Yes* If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office *Yes* Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule *Yes*

PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.		
		Kilowatts.	Volts.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN	4	250	222	1125	340	Oil Engine	Diesel Oil	Above 150°F	
AUXILIARY									
EMERGENCY									
ROTARY TRANSFORMER									

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.			
MAIN GENERATOR	2	2.0	127	.103	1125	1190	184	Rubber.	H.R. Braided
EQUALISER CONNECTIONS	1	1.0	127	.103	595	595	92	"	"
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER									
ENGINE ROOM	1	.0145	7	.052	36	37	90	"	"
BOILER ROOM									
AUXILIARY SWITCHBOARDS									
Navigation DBs	1	.01	7	.044	22	31	550	"	"
Office Passage Acc. DBs	1	.0145	7	.052	29	37	450	"	"
Engine Acc. DBs	1	.007	7	.036	17	24	200	"	"
Forward Light. DBs	1	.0225	7	.064	17	46	400	"	"
ACCOMMODATION									
Forecastle DBs	1	.0045	7	.029	6	18.2	230	"	"
Galley, Ref. Light. DBs	1	.007	7	.036	15	24	320	"	"
Acc. DBs	1	.0045	7	.029	12	18.2	240	"	"
Aft Light. DBs	1	.0045	7	.029	7	18.2	230	"	"
WIRELESS	1	.0225	7	.064	20	46	700	"	"
SEARCHLIGHT	1	.002	3	.029	18	7.8	600	"	"
MASTHEAD LIGHT	1	.002	3	.029	18	7.8	90	"	"
SIDE LIGHTS	1	.002	3	.029	10	7.8	60	"	"
COMPASS LIGHTS									
POOP LIGHTS									
Forward Cargo Lights	1	.06	19	.064	89	83	240	"	"
AFT	1	.0225	7	.064	34	46	250	"	"
HEATERS & FANS MASTERBOARD	1	.40	61	.093	234	258	140	"	"

MOTOR CONDUCTORS.										
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP	1	1	.15	37	.072	125	152	130	Rubber	H.R. Braided
MAIN BILGE LINE PUMPS	1	1	.04	19	.052	62.5	64	100	"	"
GENERAL SERVICE PUMP	1	1	.10	19	.053	93	118	90	"	"
WATERHEAT BLOWER	1	1	.003	3	.036	4.9	12.0	200	"	"
THRESHOLD FAN	1	1	.003	3	.036	7.3	12	70	"	"
CIRC. SEA WATER PUMPS	3	1	.10	19	.053	100	118	114	"	"
CIRC. FRESH WATER PUMPS	2	1	.10	19	.053	85	118	100	"	"
AIR COMPRESSOR	2	1	.40	61	.093	265	288	290	"	"
FUEL OIL SERVICE PUMP	2	1	.003	3	.036	11	12	112	"	"
ENGINE ROOM FAN	1	1	.003	3	.036	11	12	112	"	"
ENGINE TURNING GEAR	2	1	.0225	7	.064	40	46	94	"	"
ENGINE REVERSE GEAR	1	1	.06	19	.064	80	83	96	"	"
LUBRICATING OIL PUMPS	3	1	.40	61	.093	265	288	100	"	"
OIL FUEL TRANSFER PUMP	1	1	.01	7	.044	24	31	100	"	"
WINDLASS	1	1	.30	37	.103	265	288	290	"	"
WINCHES, FORWARD	4	1	.20	37	.083	206	247	72	"	"
WINCHES, MIDSHIP	2	1	.10	19	.053	100	118	92	"	"
WINCHES, AFT	2	1	.20	37	.083	206	247	72	"	"
STEERING GEAR	2	1	.10	19	.053	100	118	190	"	"
(a) MOTOR GENERATOR	2	1	.20	37	.083	190	184	500	"	"
(b) MAIN MOTOR	1	1	.01	7	.044	25.5	31	160	"	"
WORKSHOP MOTORS	1	1	.0225	7	.064	35	46	190	"	"
VENTILATING FANS	1	1	.04	19	.052	52	64	116	"	"
OIL PURIFIERS ETC.	2	1	.003	3	.036	8.5	12	80	"	"
LUB. OIL PURIFIERS	2	1	.0045	7	.029	13.0	18.2	80	"	"
O.F. PURIFIERS	5	1	.003	3	.036	8.5	12	200	"	"
E.R. VENTILATING FANS	1	1	.003	3	.036	8.7	12	60	"	"
LATHE	1	1	.003	3	.036	8.5	12	60	"	"
DRILLING MACHINE	1	1	.003	3	.036	8.7	12	60	"	"
GRINDER										



All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

For HARLAND AND WOLFF, LIMITED,

*Louis V. Smith*

Manager.

Electrical Engineers.

Date *2<sup>nd</sup> Aug '38*

#### COMPASSES.

Distance between electric generators or motors and standard compass

*38 feet*

Distance between electric generators or motors and steering compass

*32 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *10* Amperes *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *58* Amperes *8* feet from standard compass *6* feet from steering compass.

A cable carrying *22* Amperes *8* feet from standard compass *6* feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power

*Yes*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

*Yes*

The maximum deviation due to electric currents was found to be

*1/2*

degrees on

*all the*

courses in the case of the standard

compass, and *1/2* degrees on

*all the*

courses in the case of the steering compass.

For HARLAND AND WOLFF, LIMITED.

*Louis V. Smith*

Builder's Signature.

Date *2<sup>nd</sup> Aug '38*

Is this installation a duplicate of a previous case

*No.*

If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

*The electrical equipment of this*

*vessel has been fitted on board under special survey, tested under full working conditions & found satisfactory. The materials & workmanship are good.*

Total Capacity of Generators

*1000*

Kilowatts.

The amount of

£ *70 : 0 : 0*

When applied for,

*9 - AUG 1938*

Traveling Expenses (if any)

£ *1 : 0 : 2*

When received,

*16/8/38*

Committee's Minute

*GLASGOW 9 - AUG 1938*

Assigned SEE ACCOMPANYING MACHINERY REPORT.

*A. Haffner. R. I. Huvichian.*  
Surveyors to Lloyd's Register of Shipping.



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