

current protection devices been tested under working conditions **Joint Boxes, Section and Distribution Boards,** is the

construction, protection, insulation, material, and position of these as per rule **Cables:** Single, twin, concentric, or multicore *single core* are the cables insulated and protected as per Tables IV, V, X or XI of the Rules

If the cables are insulated otherwise than as per Rule, are they of an approved type **Fall [of] Pressure,** state maximum between bus bars and

any point of the installation under maximum load *5. Volts* **Cable Sockets,** are the ends of all cables having a sectional

area of 0.04 square inch and above provided with soldering sockets **Paper Insulated and Varnished Cambric Insulated Cables.**

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with

insulating compound or waterproof insulating tape **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 Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit

Support and Protection of Cables, state how the cables are supported and protected *means L.C.A in galvanised steel pipe on deck. wiring in machinery spaces L.C.A.B clipped. wiring in accommodation L.C. clipped.*

If cables are run in wood casings, are the casings and caps secured by screws , are the cap screws of brass , are the cables run in

separate grooves . If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII

Refrigerated Chambers, are the cables and fittings in accordance with the special requirements

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

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the

holes efficiently bushed state the material of which the bushes are made *fibre*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *lead and arming*

efficiently earthed by means of clips or bonding glands.

are their connections made as per Rule

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule **Emergency Supply,** state

position and method of control of the emergency supply and how the generator is driven

Navigation Lamps, are these separately wired , controlled by separate switch and separate fuses , are the fuses double pole

are the switches and fuses grouped in a position accessible only to the officers on watch

has each navigation lamp an automatic indicator as per Rule **Secondary Batteries,** are they constructed and fitted as per Rule

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight

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

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, pump room*

fittings contained in gaslight recess at top of pump room.

in gaslight tubing outside the pump room

where are the controlling switches situated *in accommodation*

are all fittings suitably ventilated , are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials

Heating and Cooking Appliances, are they constructed and fitted as per Rule , are air heaters constructed and fitted as per Rule

Searchlight Lamps, No. of , whether fixed or portable , are their fittings as per Rule

Are Lamps, other than searchlight lamps, No. of , are their live parts insulated from the frame or case , are their fittings as per Rule

Motors, are their working parts readily accessible , are the coils self-contained and readily removable for replacement

are the brushes, brush holders, terminals and lubricating arrangements as per Rule , are the motors placed in well-ventilated compartments in which

inflammable gases cannot accumulate and clear of all inflammable material , are they protected from mechanical injury and damage from

water, steam or oil 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

if not of this type, state distance of the combustible material horizontally or vertically above the motors and

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing **Control Gear and Resistances,** are the generator

field and motor speed regulators, starters and controllers constructed and fitted as per Rule **Lightning Conductors,** where lightning conductors

are required, are these fitted as per Rule **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 are all fuses of the filled cartridge type are they of an approved type

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	25	110	227	500	steam engine.		
AUXILIARY	1	8	110	73	750	I.C. engine.	oil.	above 150° F.
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		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	1	.15	37	.072	227	246	70	V.C.	L.C.A.
MOORE CONNECTIONS	1	.1	19	.083	180	191	180	V.C.	"
AUXILIARY GENERATOR	1	.0225	7	.064	73	75	110	V.C.	"
EMERGENCY GENERATOR									
ROTARY TRANSFORMER MOTOR GENERATOR									
ENGINE ROOM S.B.	1	.06	19	.064	58	83	112	R.	"
BOILER ROOM S.B.									
AUXILIARY SWITCHBOARDS									
AFT S.B.	1	.06	19	.064	59	83	160	R.	"
NAVIGATION DB.	1	.01	7	.044	88	31	720	R.	"
MIDSHIP S.B.	1	.1	19	.083	96.7	191	590	V.C.	"
CARGO S.B.	1	.06	19	.064	5	83	200	R.	"
MIDSHIP CARGO S.B.	1	.01	7	.044	3.3	31	460	R.	"
ACCOMMODATION									
WIRELESS	1	.0225	7	.064	23	46	740	R.	"
SEARCHLIGHT <i>wiring only</i>	1	.0225	7	.064	60	75	1068	V.C.	"
MASTHEAD LIGHT	1	.0015	1	.044	.36	6.1	430	R.	"
SIDE LIGHTS	1	.0015	1	.044	.36	6.1	60	R.	L.C.
COMPASS LIGHTS	1	.0015	1	.044	.2	6.1	40	R.	L.C.
POOP LIGHTS									
CARGO LIGHTS									
ARC LAMPS									
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		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										
MAIN BILGE LINE PUMPS										
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP										
SANITARY PUMP										
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS										
AIR COMPRESSOR										
FRESH WATER PUMP										
ENGINE TURNING GEAR	1	1	.03	19	.044	83	87	134	V.C.	L.C.A.
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP										
WINDLASS										
WINCHES, FORWARD										
WINCHES, AFT										
STEERING GEAR—										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR										
WORKSHOP MOTOR										
VENTILATING FANS										
PURIFIER	1	1	.0045	7	.029	16.4	18.2	140	R	LCA
DRILLING M/C.	1	1	.0045	7	.029	17.7	18.2	250	R	LCA
GRINDING M/C	1	1	.01	7	.044	24.4	31	252	R	LCA
LATHE	1	1	.0045	7	.029	13.8	18.2	260	R	LCA
VENT FAN AFT	1	1	.007	7	.036	21	24	192	R	L.C.
VENT FAN MID.	1	1	.007	7	.036	21	24	160	R	L.C.
FUEL OIL PUMP	1	1	.0045	7	.029	15.9	18.2	168	R	LCA.

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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.

J. B. Shankel
THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 26th May 1939.

COMPASSES.

Distance between electric ~~motors~~ motors and standard compass 35 feet.

Distance between electric ~~motors~~ motors and steering compass 32 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Amperes *leads* feet from standard compass *leads* feet from steering compass.

A cable carrying 60 Amperes 12 feet from standard compass 8 feet from steering compass.

A cable carrying Amperes feet from standard compass 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 *nil* degrees on *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

GLASGOW SHIPBUILDING CO. LTD.

John W. Stewart

Builder's Signature.

Date 27.5.39.

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 and found satisfactory. The materials and workmanship are good.*

26
29/5/39

Noted
2/6/39

Total Capacity of Generators *58* Kilowatts.

The amount of Fee ... £ *28 : 6* : *3 C MAY 1939*

Travelling Expenses (if any) £ - : - : *1. 6 19 39*

R. I. Murchison
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 30 MAY 1939*

Assigned *SEE ACCOMPANYING MACHINERY REPORT.*

7509.38.— Transfer. The Surveys are requested not to write on or below the space for Committee's Minutes.



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