

current protection devices been tested under working conditions. — are all fuses labelled as per rule *yes*

Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *yes*

Cables: Single, twin, concentric, or multicore *yes* are the cables insulated and protected as per Tables IV, V, X, XI, XII or XIII of the Rules generally the German Standards have been supplied.

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 *Power 3.2 volts, Lighting 2.8 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.

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 *yes* are cables laid under machines or floorplates *yes* if so, are they adequately protected *by steel tubes*

Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or in conduit *lead covered*

Support and Protection of Cables, state how the cables are supported and protected *sheet iron cable runs, where necessary cables enclosed in galvanized steel casings or tubing* 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 *yes*

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 *gas-tight joint boxes*

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 and wood*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *none* are their connections made as per Rule —

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 —

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* in wheel house has each navigation lamp an automatic indicator as per Rule *yes* Secondary Batteries, are they constructed and fitted as per Rule — are they ventilated as per Rule —

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 —

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *gas-tight fitted*

strongly protected glass bowls in funnels in gas-tight tubing, how are the cables led

where are the controlling switches situated *Bridge house*

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 —

Searchlight Lamps, No. of incandescent lamps whether fixed or portable *fixed on bridge deck* 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*, 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 — have certificates for all motors for essential services been supplied and approved *certificates attached* Control Gear and Resistances, are the generator 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 *steel masts* 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 filled 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 flameproof type approved for use in dangerous spaces —

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule *yes* are they suitably stored in dry situations *yes*

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	each 35	115	305	400	1-cylinder steam engine	—	—
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT, AMPERES.		Approximate Length. (Lead and Return). Feet, metric.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. mm.	No.	Diameter. mm.	Circuit.	Rate.			
MAIN GENERATOR	2	95	37	1.81	305	303.2	60-56		
SHORE CONNECTIONS	1	70	37	1.55	100	123.7	92		
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER MOTOR GENERATOR									
ENGINE ROOM									
BOILER ROOM									
AUXILIARY SWITCHBOARDS	I	95	37	1.81	48	151.6	21		
	II	95	37	1.81	98		176		
	III	50	19	1.83	40	98.3	129		
	IV	50	19	1.83	25				
	V	70	37	1.55	100	123.7	50		
	VI	95	37	1.81	120	151.6	50		
ACCOMMODATION	II	95	37	1.81	120	151.6	60		
	III	16	19	1.04	39	49	20		
Navigation Control Board		2.5	1	1.78	2	15.5	98		
ELECTR. STORE		10	19	0.82	40	38.1	18		
SEARCHLIGHT SUEZ CANAL CO		25	19	1.3	60	63.2	340		
WIRELESS	1	16	19	1.04	19	49	210		
SEARCHLIGHT	1	4	19	0.52	17	22.1	26		
MASTHEAD LIGHT	1	1.5	1	1.38	0.38	9.4	150/130		
SIDE LIGHTS	1	1.5	1	1.38	0.38	9.4	24/23		
COMPASS LIGHTS	1	1.5	1	1.38	0.14	9.4	10		
POOP LIGHTS	1	1.5	1	1.38	0.38	9.4	265		
CARGO LIGHTS on masts	1	2.5	1	1.78	4.55	15.5	106/126		
HEATERS	1	1.5	1	1.38	10	9.4	~10		

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT, AMPERES.		Approximate Length. (Lead and Return). Feet, metric.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Nominal Area per Pole Sq. mm.	No.	Diameter. mm.	In Circuit.	Rate.			
BALLAST PUMP										
MAIN BILGE LINE PUMPS										
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP										
SANITARY PUMP	1	1	4	19	0.52	17.6	22.1	38		
FOR REFRIGERATING CONDENSER	1	1	4	19	0.52	17.6	22.1	54		
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS										
REFRIGERATING COMPRESSOR S.	2	1	25	19	1.3	62	63.2	2x62		
FRESH WATER PUMP	1	1	4	19	0.52	17.6	22.1	40		
ENGINE TURNING GEAR	2	1	25	19	1.3	62	63.2	2x20		
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP										
WINDLASS										
WINCHES, FORWARD										
OIL PURIFIERS	2	1	10	19	0.82	25.6	38.1	2x32		
WINCHES, AFT										
LAMONT DONKEY BOILER	2	1	10	19	0.82	25.6	38.1	2x34		
WATER CIRCULATING PUMPS										
STEERING GEAR										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR										
WORKSHOP MOTOR LATHE	1	1	4	19	0.52	17.6	22.1	25		
VENTILATING FANS	2	1	2.5	1	1.78	12.4	15.5	2x76		
COOLING WATER PUMPS FOR MAIN FUEL INJECTION VALVES	2	1	16	19	1.04	40.5	49	2x42		
DRIILLING MACHINE	1	1	4	19	0.52	17.6	22.1	12		
GRINDING STONE	1	1	1.5	1	1.38	4	9.4	10		
STOVE BLOWER	1	1	2.5	1	1.78	6.1	9.4	7		
SOUNDING MACHINE	1	1	1.5	1	1.38	12	15.5	117		
ECHO SOUNDING MOTOR-GENERATOR	1	1	1.5	1	1.38	3.3	9.4	30		

The Electrical Equipment is installed in accordance with the approved plans.
 All Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
 The foregoing is a correct description.

ALLGEMEINE ELEKTRICITÄTS-GESELLSCHAFT
ABTEILUNG SCHIFFBAU

Electrical Engineers.

Date 13.2.39.

COMPASSES.

Minimum distance between electric generators or motors and standard compass about 12 metres
 Minimum distance between electric generators or motors and steering compass about 12 metres
 The nearest cables to the compasses are as follows:—
 A cable carrying 0.2 Ampères close to feet from standard compass close to feet from steering compass.
 A cable carrying Ampères feet from standard compass feet from steering compass.
 A cable carrying Ampères 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 course in the case of the standard compass, and nil degrees on course in the case of the steering compass.

DEUTSCHE WERFT
AKTIENGESELLSCHAFT

W. Müller

Builder's Signature.

Date 13.2.1939

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.)

Material and workmanship of this Electrical Installation are of good quality. It has been fitted under Special Survey in accordance with the approved plans, the Secretary's letter and otherwise in compliance with the requirements of the Rules and is eligible in my opinion to be classed. It has given satisfaction under working conditions.

Plan showing the Installation as actually fitted please find attached.

*Noted
 J.Y.
 22/2/39.*

Total Capacity of Generators 70 Kilowatts.

The amount of Fee ... RM : 590 : { When applied for, 10.2.19.39.
 Travelling Expenses (if any) £ : - : { When received, 24.3.19.39

H. Rohrs

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 24 FEB 1939

Assigned See FE machy rpl

The Surveyors are requested not to write on or below the space for Committee's Minute.