

The German Standards

Cables: Single, twin, concentric, or multicore *single twin* are the cables insulated and protected as per Tables IV or V of the Rules *applied generally*.

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *4 volts*

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets *yes*

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound *none*

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*

Support and Protection of Cables, state how the cables are supported and protected *Armoured cables, supported by cable carriers and secured by clips, where necessary protected by sheet iron casings.*

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 *no*. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII *yes*

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *yes*

Joints in Cables, state if any, and how made, insulated, and protected *watertight 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*

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

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 (steering house)*, has each navigation lamp an automatic indicator as per Rule *yes*

Secondary Batteries, are they constructed and fitted as per Rule *—*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and where 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 *—*

how are the cables led *—*

where are the controlling switches situated *—*

Searchlight Lamps, No. of *1*, whether fixed or portable *fixed*, are their fittings as per Rule *yes*

Arc 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 *—*, 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 *—*

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 *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 *—*

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office *—*

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 ...	1	12	115	104.5	450	Steam engine	—	—
AUXILIARY ...	—	—	—	—	—	—	—	—
EMERGENCY ...	—	—	—	—	—	—	—	—
ROTARY TRANSFORMER	2	—	—	—	—	—	—	—

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
—	MAIN GENERATOR...	4	50	19	1.83	105	40	Rubber	Laid covered, braided and armoured.
—	EQUALISER CONNECTIONS	—	—	—	—	—	—	—	—
—	AUXILIARY GENERATOR	—	—	—	—	—	—	—	—
—	EMERGENCY GENERATOR	—	—	—	—	—	—	—	—
—	ROTARY TRANSFORMER...	4	16	7	1.7	45	200	"	"
—	AUXILIARY SWITCHBOARDS	6	6	1	2.78	20	260	"	"
—	ENGINE ROOM	4	1.5	1	1.38	4	150	"	"
—	BOILER ROOM	2	1.5	1	1.38	3	200	"	"
—	ACCOMMODATION	2	1.5	1	1.38	4	250	"	"
—	Funnel	2	1.5	1	1.38	2	200	"	"
—	Forecastle	2	2.5	1	1.78	10	280	"	"
—	WIRELESS	2	16	1	2.78	18	230	Rubber	Laid covered, braided and armoured.
—	SEARCHLIGHT	2	6	1	2.78	20	240	"	"
—	MASTHEAD LIGHT...	2	1.5	1	1.38	1	300	"	"
—	SIDE LIGHTS	2	1.5	1	1.38	1	80	"	"
—	COMPASS LIGHTS	2	1.5	1	1.38	1	40	"	"
—	POOP LIGHTS	2	1.5	1	1.38	1	350	"	"
—	CARGO LIGHTS	6	1.5	1	1.38	6	280	"	"
—	ARC LAMPS	—	—	—	—	—	—	—	—
—	HEATERS	—	—	—	—	—	—	—	—

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	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 ...								
	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								

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

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

The foregoing is a correct description.

HEG Elektrizitäts-A.G.
Danzig

Electrical Engineers.

Date 17.10.30

COMPASSES.

Distance between electric generators ~~or motors~~ and standard compass Abt 80'

Distance between electric generators ~~or motors~~ and steering compass 80'

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères 5 feet from standard compass 5 feet from steering compass.

A cable carrying 10 Ampères 6 feet from standard compass 8 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

The maximum deviation due to electric currents was found to be nil degrees on all course in the case of the standard

compass, and nil degrees on all course in the case of the steering compass.

THE INTERNATIONAL
SHIPBUILDING AND ENGINEERING CO. LTD.
(Danziger Werft und Eisenbahnwerkstätten A.G.)

Builder's Signature.

Date 17.10.30

Is this installation a duplicate of a previous case — If so, state name of vessel —

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

Workmanship and material of this installation are of good quality. As the conductors used are of the German Standards, the Society's Rules regarding conductors have been applied generally. The installation is otherwise fitted in accordance with the approved plan and the requirements of the Rules.

It was tested under full load with satisfactory result and is in our opinion eligible for the notation of, "Electric lights."

It is submitted that
this vessel is eligible for
THE RECORD. E Rec Light.

The Fee of £12.0.0 to be credited to Station. p.c.d.

Total Capacity of Generators 12 Kilowatts.

The amount of Fee ... £ 12 : 0 : { When applied for, 16.10.1930 p.c.d.
Travelling Expenses (if any) £ : : { When received, 3.11.1930 666

M. Hoare
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 24 OCT 1930

TUE. 4 NOV 1930

Assigned

Electric Light



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Lloyd's Register
Foundation