

current protection devices been tested under working conditions *yes* 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 multi-core *all types* are the cables insulated and protected as per Tables IV, V, X, XI, XII or XIII 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 *2.4 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 *yes*, or waterproof insulating tape *yes*

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 *no* if so, are they adequately protected *yes*

Are cables in machinery spaces, galleys, lavatories, bathrooms and lavatories lead covered or run in conduit *yes* *cables are clipped to metal trays or direct to wood-work or steelwork of vessel or run in conduit.*

Support and Protection of Cables, state how the cables are supported and protected *yes* 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 *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 *Lead sheath & steel wire braiding of cables* and all apparatus earthed where necessary to Rule requirements 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 by battery in gaslight compartment in engine room with ventilating ducts to deck; one double pole controlling switch, one triple pole charge & discharge change over switch & one set of double pole fuses are mounted on lighting switchboard.

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 chartroom)*

has each navigation lamp an automatic indicator as per Rule *yes* **Secondary Batteries,** are they constructed and fitted as per Rule *yes* are they ventilated 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 *none*

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *none*

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 *nil* whether fixed or portable *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*, 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* have certificates for all motors for essential services been supplied and approved *yes* **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 *yes*

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.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	40	220	182	900	oil engine	diesel oil	above 150° F.
AUXILIARY	1	7.5	220	34	750	"	"	"
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. mm.	No.	Diameter mm.	In Circuit.	Rule.			
MAIN GENERATOR	1	160	37	2.37	182	205	195 90	rubber	Lead sheath & steel wire braiding
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR	1	10	7	1.35	34	38	90	"	"
Battery connections	1	6	7	1.05	25	29	15	"	"
ROTARY TRANSFORMER MOTOR									
ENGINE ROOM (2 circuits)	1	1.5	1	1.39	1	9.5	90 75	"	"
BOILER ROOM									
AUXILIARY SWITCHBOARDS									
Navigation board	1	1.5	1	1.39	1	9.5	150	"	"
Cargo lights dist. brd	1	1.5	1	1.39	2.5	9.5	290	"	"
Deck machinery forward	1	2.5	7	2.13	64	67 1/2	300	"	"
ACCOMMODATION									
Lighting dist. brd. port	1	1.5	1	1.39	5	9.5	105	"	"
Lighting dist. brd. st. brd.	1	1.5	1	1.39	5	9.5	110	"	"
WIRELESS									
SEARCHLIGHT									
MASTHEAD LIGHT	1	1.5	1	1.39	.2	9.5	315	"	"
SIDE LIGHTS	1	1.5	1	1.39	.2	9.5	45 50	"	"
COMPASS LIGHTS	1	1.5	1	1.39	.08	9.5	80	"	"
POOP LIGHTS	1	1.5	1	1.39	.2	9.5	90	"	"
CARGO LIGHTS	1	1.5	1	1.39	.18	9.5	85	"	"
HEATERS									

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. mm.	No.	Diameter mm.	In Circuit.	Rule.			
BALLAST PUMP	1	1	6	7	1.05	21	29	100	rubber	Lead sheath & steel wire braiding.
MAIN BILGE LINE PUMPS	1	1	4	7	.86	16	22.5	80	"	"
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	1	1	2.5	1	1.79	135	15.5	75	"	"
WINDLASS	1	1	2.5	7	2.13	61	63	140	"	"
WINCHES, FORWARD	1	1	2.5	7	2.13	64	67 1/2	25	"	"
WINCHES, st Forward	1	1	2.5	7	2.13	64	67 1/2	45	"	"
Capstan	1	1	6	7	1.05	27.5	29	85	"	"
STEERING GEAR										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR	1	1	4	7	.86	20	22.5	145	"	"
WORKSHOP MOTOR										
VENTILATING FANS										
Oil purifier	1	1	1.5	1	1.39	2.6	9.5	70	"	"
Oil heater	1	1	6	7	1.05	13.5	29	65	"	"

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.

Van Rietschoten & Houwens
 Electriciteits-Installateurs, N.Y.

Electrical Engineers. Date _____

COMPASSES.

Minimum distance between electric generators or motors and standard compass 19 feet (steering gear motor).

Minimum distance between electric generators or motors and steering compass 14 feet (" ").

The nearest cables to the compasses are as follows:—

A cable carrying .08 Ampères 1 feet from standard compass 1 feet from steering compass. Compass lights.

A cable carrying .2 Ampères 4 feet from standard compass 2 feet from steering compass. more signalling lamps.

A cable carrying .1 Ampères 11 feet from standard compass 5 feet from steering compass. steering gear control circuit
 " " " 20 " " " 12 " " " " " supply.

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 nihil degrees on every course in the case of the standard compass, and nihil degrees on every course in the case of the steering compass.

N.Y. Scheepsbouwwerf „DE MERWEGE“
 v/h VAN VLIET & Co.

Builder's Signature. Date 11 Feb. 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, etc.)

The electrical installation of this vessel has been fitted on board under special survey, tested under full working conditions and found satisfactory. The material and workmanship are good and the installation merits in my opinion the Committee's approval.

Noted
 L.Y.
 22/2/39.

Total Capacity of Generators 87.5 Kilowatts.

The amount of Fee ... £ 375.00 : When applied for, 13.2.19.39.

Travelling Expenses (if any) £ 6.00 : When received, 28.2.19.39.

H. van der Wijk.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 28 FEB 1939

Assigned

See Rot. 7.E. 27832

2m. 12.30.—Transfer. The Surveyors are requested not to write on or below the space for Committee's Minute.



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