

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** and **A.I.E.E.**

Cables: Single, twin, ~~triple~~ multicore... **Yes** are the cables insulated and protected as per Tables IV, V, X or XI of the Rules **A.I.E.E.**

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 1/2 L and 4 P** 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 in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit **Lead covered**.

Support and Protection of Cables, state how the cables are supported and protected... **Cable Hangers & Clamps, Conduits & Pans, where necessary.**

If cables are run in wood casings, are the casings and caps secured by screws... **None**, 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 **A.I.E.E.**

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 **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 **Malleable Iron**

Earthing Connections, state what earthing connections are fitted and their respective sectional areas... **All Fixtures & Equipment mounted on Steel Supports & welded to Ship's construction, Neutral Conductors not grounded, Sheaths & Armour of all Feeders bonded to Earth at Switchboard, by approved Clamps & bonding Jumpers.** are their connections made as per Rule... **Yes**

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule... **None** Emergency Supply, state position and method of control of the emergency supply and how the generator is driven... **None**

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... **None**

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... **Steel 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... **Explosion Proof**

Fittings, Fixtures, Outlets & Cable Installations... how are the cables led **Cables by-pass the area & not run through or within protected enclosures except to supply particulars Light.** where are the controlling switches situated... **Outside of Compartment.**

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... **A.I.E.E.** are air heaters constructed and fitted as per Rule... **None**

Searchlight Lamps, No. of... **None** whether fixed or portable... **-** are their fittings as per Rule... **-**

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... **Yes**, are the coils self-contained and readily removable for replacement... **Yes**, are the brushes, brush holders, terminals and lubricating arrangements as per Rule... **A.I.E.E.** 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 & vertical... **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... None** if not of this type, state distance of the combustible material horizontally or vertically above the motors... **-** and **-** have machines of over 100 BPH 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... A.I.E.E.** Lighting Conductors, where lightning conductors are required, are these fitted as per Rule... **None** 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	WHEELS DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts	Volts	Amperes	Revs. per Min.		Fuel Used	Flash Point of Fuel
MAIN	3	250	240	1050	1200	Steam Turbines		
AUXILIARY (Ltg.)	2	40	120	330	1750	Electric Motor		
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 Mills	No.	Mills	Circuit.	Rule.			
MAIN GENERATOR	4	2,000,000	37	116.2	1040	2116	60	V.C.	Lead & Armour
EQUALISER CONNECTIONS ...	1	500,000	37	116.2	520	529	60	V.C.	" " "
Emergency Generator									
Lighting M/G Set (MOTOR)	2	500,000	37	116.2	1058	1058	50	V.C.	" " "
ROTARY TRANSFORMER (GENERATOR)	1	400,000	37	104	456	456	50	V.C.	" " "
ENGINE ROOM Starbd.	1	30,860			50	65	45	H.F.A.	Armour
BOILER ROOM Port.	1	30,860			50	65	45	"	"
AUXILIARY SWITCHBOARDS									
Lgt. Panel A Deck (p)	1	30,860			50	65	100	"	"
" " Shelter Deck (s)	1	30,860			50	65	100	"	"
E.R. Aux. Pnl. No. 1	2	400,000			750	912	60	V.C.	Lead & Armour
" " " No. 2	3	400,000			1050	1368	60	"	" " "
" " " No. 3	2	500,000			550	666	60	"	" " "
ACCOMMODATION									
Galley Panel	1	837000			100	112	75	Rubber	" " "
Gyro Compass	1	30,860			30	65	100	H.F.A.	Armour
Navigation Panel	1	30,860			50	65	150	"	"
WIRELESS	1	41,700			30	70	150	"	"
SEARCHLIGHT									
MASTHEAD LIGHT	1	4100			.5	13	350	"	"
SIDE LIGHTS	1	4100			.5	13	40	"	"
COMPASS LIGHTS ... (3)	1	4100			.2	13	40	"	"
POORHOUSE RANGE									
CARGO LIGHTS Hold No. 1.	1	30,860			50	65	100	"	"
Navigation Holds No. 4 & 5									
Navigation Control Panel.	1	6,530			15	22	100	V.C.	Lead & Armourer

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 Mills	No.	Mills	In Circuit.	Rule.			
BALLAST PUMP	1	1	83,700	19	66.4	77	117	100	V.C.	Lead & Armour
MAIN BILGE LINE PUMPS ...	1	1	83700	19	66.4	77	127	80	"	" " "
GENERAL SERVICE PUMP ...										
EMERGENCY BILGE PUMP										
Aux. Circ. Pump	1	1	106,000	19	74.5	110	188	60	"	" " "
MAIN CIRC. SEA WATER PUMPS	1	1	600,000	61	992	375	596	60	"	" " "
CIRC. FRESH WATER PUMPS ...										
AIR COMPRESSOR No. 1 & 2 (each)	1	1	133,000	19	83.7	150	158	60	"	" " "
FRESH WATER PUMP ...	1	1	6,530	7	30.5	5	22	60	"	" " "
ENGINE TURNING GEAR	1	1	26,000	7	61.2	30	55.5	120	"	" " "
ENGINE REVERSING GEAR										
No. 1 & 2 LUBRICATING OIL PUMPS	1	1	133,000	19	83.7	95	158	140	"	" " "
OIL FUEL TRANSFER PUMP ...	1	1	66,400	7	97.4	59	99	120	"	" " "
WINDLASS	1	1	296,400			260	376	580	H.F.A.	"
WINCHES, FORWARD (each)	4	1	198,700			187	299	40ft & 140ft.	"	"
Winch Feeders #210 & 211	1	1	658,700			700	670		"	"
WINCHES, AFT ... (each)	4	1	189,700			187	299	40	"	"
STEERING GEAR—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR	2	1	296,400			187	376	80	"	"
Mooring Winch	1	1	296,400			275	376	90	"	"
Mooring Motor										
VENTILATING FANS (each)	4	1	26,300			30	55.5	70	V.C.	" " "
Ventilation Panel	-	1	521,600			225	565	70	H.F.A.	"
F.D. Fans #1 & 2 (each)	1	1	106,000			77	188	65	V.C.	" " "
Winch Condensate Pumps	1	1	83,700			77	117	65	"	" " "
O.F. Service Pump	1	1	26,300			28	55.5	60	"	" " "
Winch Feed Pumps (each)	1	1	168,000			200	286	60	"	" " "
Aux. Condensate Pump.	1	1	26,300			38	55.5	60	"	" " "

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.

Miller Electric Co., Jacksonville, Fla., for Gibbs Corp. Electrical Engineers.

Date March 27th, 1950

COMPASSES.

Distance between electric generators or motors and standard compass 20ft.

Distance between electric generators or motors and steering compass 15ft.

The nearest cables to the compasses are as follows:—

A cable carrying 0.10 Ampères Light ~~feet from~~ ^{on} standard compass Lights on ~~feet from~~ steering compass.

A cable carrying 20 Ampères 12ft feet from standard compass 9 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 Steady course in the case of the standard compass, and Nil degrees on Steady course in the case of the steering compass.

Builder's Signature.

Date March 27th, 1950

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.)

The Electrical Installation, to the A.B.S. Requirements, has been examined throughout & found to be generally accordance with the Rules. The Material & Workmanship is good & the Installation tested under full working conditions, found satisfactory & is, in my opinion, eligible to be classed with the Machinery of this vessel

Reference to Equalizer: The Positive & Negative Conductor capacity is far in excess of the 250KW Generator capacity - the full load of the Generator is 1040 Amperes where, as the installed Conductor capacity Positive & Negative 2040 Amperes. Half of 1040 Amperes equals 520 Amperes allowing for 50% unbalanced Equalizer current and the installed neutral capacity being 529 Amperes it is felt that the Equalizer is adequate and meeting all Rules.

Total Capacity of Generators 750 Kilowatts.

The amount of Fee ... £ Entered on: { When applied for, Apr. 14th 1950 }
Rpt. 9 { When received, 19 }
Traveling Expenses (if any) £ : :

A. A. Stewart
Surveyor to Lloyd's Register of Shipping.



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



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