



Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an approved type yes, are all fuses labelled as per Rule yes, are the reversed current protection devices connected on the pole opposite to the equaliser connection ✓, have they been tested under working conditions yes. Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule yes. Cables, are they insulated and protected as per the appropriate Tables of the Rules yes, if otherwise than as per Rule are they of an approved type ✓, state maximum fall of pressure between bus bars and any point under maximum load <sup>power: 5 volts</sup> are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets yes <sup>lighting: 2 volts</sup> Are paper insulated and varnished cambric insulated cables sealed at the exposed ends ✓ with insulating compound ✓ or waterproof insulating tape ✓. Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage yes, are cables laid under machines or floorplates no, if so, are they adequately protected ✓. Are cables in machinery spaces, galleys, laundries, etc., lead covered yes or run in conduit ✓. State how the cables are supported and protected cables are clipped to metal trays or direct to steelwork or woodwork of vessel on weatherdecks the wiring is drawn in conduit.

Are all lead sheaths, armouring and conduits effectually bonded and earthed yes. Refrigerated chambers, are the cables and fittings as per Rule ✓. Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed yes and with what material lead bushes. Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes. Emergency Supply, state position by a battery housed in a special compartment on deck and method of control incorporated with the generator control on the main switchboard. Navigation Lamps, are they separately wired yes controlled by separate double pole switches yes and fuses yes. Are the switches and fuses in a position accessible only to the officers on watch yes, is an automatic indicator fitted yes. Secondary Batteries, are they constructed and fitted as per Rule yes, are they adequately ventilated yes. Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present no, if so, how are they protected ✓.

and where are the controlling switches fitted ✓, are all fittings suitably ventilated yes, are all fittings and accessories constructed and installed as per Rule yes. Searchlight Lamps, No. of one, whether fixed or portable portable, are their fittings as per Rule yes. Heating and Cooking, is the general construction as per Rule ✓, are the frames effectually earthed ✓, are heaters in the accommodation of the convection type ✓. Motors, are all motors constructed and installed as per Rule yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil yes, if situated near unprotected combustible material state minimum distance from same horizontally ✓ and vertically ✓. Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing ✓. Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule yes. Control Gear and Resistances, are they constructed and fitted as per Rule yes. Lightning Conductors, where required are they fitted as per Rule ✓. Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with ✓, are all fuses of the 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 flameproof type ✓. Spare Gear, if the vessel is for open sea service have spares been provided as per Rule yes, are they suitably stored in dry situations yes. Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory 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 Power	one	24	220	109	600	oil engine	diesel oil above 150° F.	
Lighting	one	2	48/70	41/32.5	1400/1000	main engine	" " " "	
"	one	3	48/70	60/42	1000	Aux. oil engine	" " " "	
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or Nominal Size of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR Power	24	1	70	109	125	50	rubber	lead sheath & steelwire braiding.
" " EQUALISER								
Lighting generator	2	1	25	41.5	63	100	"	" " "
" " "	3	1	25	60	63	35	"	" " "
Battery connections								
EMERGENCY GENERATOR		1	10	15	38	100	"	" " "
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.	
AUX. SWITCHBOARDS AND SECTION BOARDS							
Power cable to forward c.o. switch		1	16	50	50 1/2	250	" " "
Lighting dist board in accommodation		1	4	15	22.5	90	" " "
Navigation board		1	2.5	4	15.5	65	" " "

LIGHTING AND HEATING, ETC., CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.	
WIRELESS							
NAVIGATION LIGHTS (masthead, side, sternlights)		1	1.5	.8	9.5	50-100 40-60	" " "
LIGHTING AND HEATING							
Searchlight		1	2.5	1	15.5	80	" " "
Cargolights		1	2.5	2.5	15.5	240	" " "
Engine room lighting (2 circuits)		1	2.5	3	15.5	110-120	" " "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.	
Main bilge line pumps	1	6	1	6	24	29	90	" " "
Oil fuel transfer pump	1	2.5	1	1.5	2	9.5	75	" " "
Windlass	1	10	1	16	42	50 1/2	30	" " "
Winch forward	1	10	1	16	42	50 1/2	20	" " "
Winch aft	1	10	1	16	42	50 1/2	40	" " "

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description

**By: HERMAN G. FEKELS**

*[Handwritten Signature]*

..... Electrical Engineers. Date.....

**COMPASSES.**

Minimum distance between electric generators or motors and standard compass aux. lighting generator : 27 feet

Minimum distance between electric generators or motors and steering compass aux. lighting generator : 22 feet

The nearest cables to the compasses are as follows:—

A cable carrying 60 Ampères 24 feet from standard compass 10 feet from steering compass.

A cable carrying 15 Ampères 15 feet from standard compass 14 feet from steering compass.

A cable carrying 4 Ampères 6 feet from standard compass 6 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 every course in the case of the standard compass, and nil degrees on every course in the case of the steering compass.

..... Builder's Signature. Date.....

Is this installation a duplicate of a previous case yes If so, state name of vessel my B.U.C.

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

The electrical equipment 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.

*[Handwritten Signature]*  
13/5/40

Total Capacity of Generators 29 Kilowatts.

The amount of Fee ... £ 264.00 : { When applied for, .....19.....  
Travelling Expenses (if any) £ / : { When received, .....19.....

*[Handwritten Signature]*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 14 MAY 1940

Assigned See Gen. 7<sup>th</sup> 100<sup>a</sup>

2m, 10, 33.—Transfer. (MADE IN ENGLAND.)  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)