

Switches, Circuit Breakers and Fuses, are they as per Rule Yes..... are the fuses an approved type Diaged. are all fuses labelled as per Rule Yes..... are the reversed current protection devices connected on the pole opposite to the equaliser connection Yes..... 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 No....., if otherwise than as per Rule are they of an approved type..... Yes....., state maximum fall of pressure between bus bars and any point under maximum load..... 3 volts the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets..... Yes..... Are paper insulated and varnished cambric insulated cables sealed at the exposed ends..... Yes..... with insulating compound..... Yes..... or waterproof insulating tape..... Yes..... 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..... Yes..... Are cables in machinery spaces, galleys, laundries, etc., lead covered All cables lead covered or run in conduit..... partly covered State how the cables are supported and protected..... The cables are supported by clips and double iron armoured. They are led through pipes where necessary.....

Are all lead sheaths, armouring and conduits effectually bonded and earthed..... Yes..... Refrigerated chambers, are the cables and fittings as per Rule..... Yes..... 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..... **Alternative Lighting**, are the groups of lights in the engine and boiler rooms arranged as per Rule..... Yes..... **Emergency Supply**, state position..... None..... and method of control..... Yes.....

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..... Yes..... and where are the controlling switches fitted..... Yes....., are all fittings suitably ventilated..... Yes.....

are all fittings and accessories constructed and installed as per Rule..... Yes..... **Searchlight Lamps**, No. of..... None....., whether fixed or portable..... Yes....., are their fittings as per Rule..... Yes..... **Heating and Cooking**, is the general construction as per Rule..... Yes.....

are the frames effectually earthed..... Yes....., are heaters in the accommodation of the convection type..... Yes..... **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..... Yes..... and vertically..... Yes.....

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... None..... 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..... Yes..... **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..... Yes....., are all fuses of the cartridge type..... Yes.....

are they of an approved type..... Diaged..... If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof type..... None fitted **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	One	30	115	261	800/860	2 cyl. 2SCSA Bolind. eng.	Diesel oil	80° C.
	One	8	115	69.6	900/970	1 " " " " " " " " " "	" " " " " "	" " " " " "
EMERGENCY ROTARY TRANSFORMER								

2 Cyl. 11.5 BHP engine fitted 2/28.

GENERATOR CABLES.

DESCRIPTION	KILOWATTS	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet) metres	INSULATED WITH	HOW PROTECTED.
		No. in Parallel Per Pole	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit	Rule			
MAIN GENERATOR	30	2	140	261	260	9	Vulc.	Lead covered
Aux. " rotary	8	1	25	69.6	63	30	rubber	and armoured
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

AUX. SWITCHBOARDS AND SECTION BOARDS							
A. Engine room	1	10	15	37	17	" "	" "
B. Pantry	1	2.5	6	15.5	11	" "	" "
C. Bridge (Navigation lights).	1	2.5	2	15.5	22	" "	" "

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	1	4.0	Battery	22	22	" "	Lead covered
NAVIGATION LIGHTS	1	1.5	2	7	90	" "	" " "
LIGHTING XXXXXXXXXX	1	1.5	2	7	100	" "	" " "
Oil heater	1	1.5	4	7	24	" "	Lead covered and armoured
Secondary battery	1	4.0	15	22	32	" "	Lead covered and armoured
2 water heaters	1	10.0	13.6	37	30	" "	Lead covered

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Windlass	1	16	1	70.0	127	130	122	" "	Lead covered and armoured
Winch +)	1	10	1	25.0	64	63	10	" "	" " "
Oil separator	1	1.1	1	1.5	7	7	24	" "	" " "
Pump motor	1	4	1	10	27	37	30	" "	" " "

+) The winch is not of a totally enclosed type and the same is therefore recommended to be replaced by one of approved type. No flame-proof certificate is available.

003971-003979-0539 2

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

ELEKTRISKA AKTIEBOLAGET AEG
 FILIAL STOCKHOLM

John Weller

Electrical Engineers. Date 10.2.44

COMPASSES.

Minimum distance between electric generators or motors and standard compass 10 metres

Minimum distance between electric generators or motors and steering compass 8 metres

The nearest cables to the compasses are as follows:—

A cable carrying 0.3 Ampères 2 metres from standard compass 2 metres 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 None

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

A.B. EKANSBERGS VARV

A. Rygg

Builder's Signature. Date 10.2.44

Is this installation a duplicate of a previous case No. If so, state name of vessel.....

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

This electrical equipment has been fitted onboard under my supervision and to my satisfaction.

The workmanship is good and the Rule Requirements have been complied with.

It is recommended the Electric Winch being replaced by one of approved type.

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

Total Capacity of Generators 38 Kilowatts.

The amount of Fee	Kr. 465:-	{ When applied for, <u>12.1.19.44.</u> When received19.....
Travelling Expenses (if any) £	:	

John Weller

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

