

current protection devices been tested under working conditions. **Yes (L/L Sweep)** Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule **Yes**

Single Lighting and Power, Multiple Degaussing are the cables insulated and protected as per Tables IV, V, X or XI of the Rules **Yes**

Cables: Single, twin, concentric, or multi-core **Yes**

If the cables are insulated otherwise than as per Rule, are they of an approved type **-** Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load **2.7** 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 **-**, or waterproof insulating tape **-** 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 **Clipped to woodwork and perforated steel tray by brass and steel galvanized steel clips spaced as per Rule, with wood or metal guards where necessary.**

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 **--** 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 **---**

Joints in Cables, state if any, and how made, insulated, and protected. **None except at Junction 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 and Hardwood Collars**

Earthing Connections, state what earthing connections are fitted and their respective sectional areas. **All machinery, piping, lead covered cables, tanks, etc. bonded to earthing strip.**

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 **D.P.D.T. switches on main switchboard supplying Navigation and General Lighting Circuits, with alternate supply taken from L/L Sweep Batteries.**

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 **Wheelhouse**

has each navigation lamp an automatic indicator as per Rule **No. Pilot** Secondary Batteries, are they constructed and fitted as per Rule **Yes** light only. **Approved by R.C.N.**

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 **Cast Metal**

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 **Yes in**

Magazines and Battery Room (Admiralty Magazine Fittings A.P. 7007B) how are the cables led **In Conduit.**

where are the controlling switches situated **Outside Compartments.**

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 **--** are air heaters constructed and fitted as per Rule **--**

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 **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 **Possible.** 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 **Drip Proof.**

if not of this type, state distance of the combustible material horizontally or vertically above the motors. **---** and **---**

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing **100** **B.H.P. 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 **-** 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 **Yes**

PARTICULARS OF GENERATING PLANT.										
DESCRIPTION OF GENERATOR	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE		Insulated with	HOW PROTECTED
		Kilowatts	Volts	Amps	Rev. per Min.		Fuel Used	Flash Point of Fuel		
MAIN	1	25	225	111	1200	Heavy Oil Engine	Diesel Oil	Above 150°F.		
AUXILIARY	2	54	225-250	216	1500	" " "	" " "	" " "		
(Main Circuit Breakers set to trip at 200 Amps.)										
ROTARY TRANSFORMER										

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION	No. per Pole	Total Nominal Area per Pole Sq. Ins.	COMPOSITION OF STRAND		TOTAL MAXIMUM CURRENT, AMPERES		Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED
			No.	Diameter.	In Circuit	Rule			
MAIN GENERATOR	1	.15	37	.072	111	152	30	Rubber	Lead Covered
EQUALISER CONNECTIONS									
L.L. Sweep GENERATORS	1	.235	37	.090	200	204	60	Rubber	In Conduit
EMERGENCY GENERATOR									
ROTARY TRANSFORMER (MOTOR GENERATOR)									
ENGINE ROOM	1	.003	3	.036	3	10	30	Rubber	Lead Covered
BOILER ROOM									
AUXILIARY SWITCHBOARDS									
Degaussing	1	.0225	7	.064	21	46	12	Rubber	Lead Covered
Heat & Power	1	.0045	7	.029	12	15	30	"	" "
L.L. Winch	1	.0225	7	.064	29	46	70	"	" "
Navigation and Signalling	1	.0045	7	.029	3	15	100	"	" "
Lighting	1	.0225	7	.064	19	46	30	"	" "
ACCOMMODATION Ford.	1	.003	3	.036	3	10	120	"	" "
" Ward Room	1	.003	3	.036	8	10	30	"	" "
" Aft	1	.003	3	.036	3	10	70	"	" "
WIRELESS	1	.0045	7	.029	9	15	100	Rubber	Lead Covered
SEARCHLIGHT	1	.003	3	.036	2	10	80	"	" "
MASTHEAD LIGHT	1	.003	70	.0076	.36	10	140	Rubber	Lead Covered & Phosphor Bronze Braid. " "
SIDE LIGHTS	1	.003	70	.0076	.36	10	40	"	" "
COMPASS LIGHTS	1	.0015	1	.044	.05	5	20	"	Lead Covered
POOP LIGHTS									
CARGO LIGHTS									
ARC LAMPS									
HEATERS									

MOTOR CONDUCTORS.										
DESCRIPTION	No. of Motors	No. per Pole	Total Nominal Area per Pole Sq. Ins.	COMPOSITION OF STRAND		TOTAL MAXIMUM CURRENT, AMPERES		Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED
				No.	Diameter.	In Circuit	Rule			
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	1	1	.003	3	.036	5.3	10	85	Rubber	Lead Covered
WINDLASS	1	1	.04	19	.052	54	64	140	Rubber	Lead Covered
WINCHES, FORWARD										
WINCHES, AFT										
STEERING GEAR—										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR										
WORKSHOP MOTOR										
VENTILATING FANS	5	1	.007	7	.036	21	24	30	Rubber	Lead Covered

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.

MOTT ELECTRIC LTD.

Robert S. Milne Pres.

Electrical Engineers.

Date 3rd July, 1944

COMPASSES.

Distance between electric generators or motors and standard compass 20 feet (W.T. Ventilation Fan)

Distance between electric generators or motors and steering compass 15 " (" " ")

The nearest cables to the compasses are as follows:—

A cable carrying .1 Ampères .5 feet from standard compass .5 feet from steering compass. (Compass Light)

A cable carrying .045 Ampères .5 feet from standard compass .5 feet from steering compass. (Compass Correction Coils)

A cable carrying .4 Ampères 7 feet from standard compass 3.5 feet from steering compass. (Wheelhouse Light)

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 All courses in the case of the standard

compass, and Nil degrees on All courses in the case of the steering compass.

A. Benson

Builder's Signature.

Date 3rd July, 1944

A. C. BENSON SHIPYARD LTD.

Is this installation a duplicate of a previous case Yes If so, state name of vessel H.M.C.S. "DAERWOOD" (Vancouver Report No. 6181)

General Remarks (State quality of workmanship, opinions as to class, &c. The electrical equipment of this ship

has been installed under Special Survey in accordance with Royal Canadian Naval Plans, Specification, and Society's Rules. The materials and workmanship are good. The installation has been examined under full working conditions, tested as per Rule, and found satisfactory, and in our opinion is eligible to have the Society's Classification without Special Notation. The L/L Sweep battery is without fuse protection as required by the Rules but the arrangement has been approved by the R.C.N., owing to the difficulty in obtaining supplies of special 3000 Amp. fuses from U.K. Copies of particulars of ship's trials on 25 K.W., and L/L Sweep Generators attached. Maker's Certificate covering Diesel Engine (Driving 25 K.W. Generator) and Maker's Test Sheet of Diesel Engines driving L/L Sweep Generators attached. As fitted plan of Electrical wiring attached.

Noted J.R. 8.11.44

Total Capacity of Generators 25 Kilowatts. Lighting & Power.
108 " L/L Sweeps.

The amount of Fee ... \$100.00

When applied for, 3rd July 1944

Travelling Expenses (if any) \$ 5.00

When received, 19

A. G. Donald & A. B. M. Coleman
Surveyors to Lloyd's Register of Shipping. (Acting)

Committee's Minute FRI. 12 JAN 1945

Assigned See FE machy opt.

Im-4-42.—Transfer. Printed in U.S.A.
(The Surveyors are requested not to write on or below the space for Committee's Minute)



© 2021

Lloyd's Register Foundation