

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report.....19..... When handed in at Local Office.....4 NOV 1943.....19..... Port of.....HULL.....

No. in Survey held at.....Beverly & Hull..... Date, First Survey.....24.9.43..... Last Survey.....18.10.43.....
Reg. Book..... on the.....H.M.T ROSEVEAN..... (Number of Visits.....11.....)

Built at.....Beverly..... By whom built.....Cook Walker & Gummel Yard No.....710..... When built.....1943.....
Owners.....The Admiralty..... Port belonging to.....
Tons { Gross.....452.....
Net.....144.....

Electrical Installation fitted by.....W. Broad & Son..... Contract No..... When fitted.....1943.....

Is vessel fitted for carrying Petroleum in bulk.....No..... Is vessel equipped with D.F.....No..... E.S.D.....Yes..... Gy.C.....No..... Sub.Sig.....No.....

Have plans been submitted and approved.....Yes..... System of Distribution.....two wire..... Voltage of supply for Lighting.....110.....

Heating.....110..... Power.....110..... Direct or Alternating Current, Lighting.....D.C. Power.....D.C. If Alternating Current state periodicity..... Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off.....Yes..... Are turbine emergency governors fitted with a trip switch as per Rule.....

Generators, are they compound wound.....Yes..... are they level compounded under working conditions.....Yes.....

if not compound wound state distance between generators..... and from switchboard..... Where more than one generator is fitted are they arranged to run in parallel.....

are shunt field regulators provided.....Yes..... Is the compound winding connected to the negative or positive pole.....

negative..... Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing..... Have certificates of test for machines under 100 kw. been supplied.....

and the results found as per rule.....Yes..... Are the lubricating arrangements and the construction of the generators as per rule.....

Yes..... Position of Generators.....Engine room starboard side on platform.....

is the ventilation in way of generators satisfactory.....Yes..... are they clear of inflammable material.....Yes..... if situated near unprotected combustible material state distance from same horizontally.....

and vertically..... are the generators protected from mechanical injury and damage from water, steam and oil.....

Yes..... are the bedplates and frames earthed.....Yes..... and the prime movers and generators in metallic contact.....

Yes..... Switchboards, where are main switchboards placed.....Engine room starboard side near generator.....

are they in accessible positions, free from inflammable gases and acid fumes.....Yes..... are they protected from mechanical injury and damage from water, steam and oil.....

Yes..... if situated near unprotected combustible material state distance from same horizontally..... and vertically..... what insulation material is used for the panels.....

insulated with mica..... if of synthetic insulating material is it an Approved Type..... if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule.....

Is the construction as per Rule.....Yes..... including accessibility of parts.....Yes..... absence of fuses on the back of the board.....Yes..... individual fuses to pilot and earth lamps, voltmeters, etc.....

Yes..... locking of screws and nuts.....Yes..... labelling of apparatus and fuses.....Yes..... fuses on the "dead" side of switches.....

Yes..... Description of Main Switchgear for each generator and arrangement of equaliser switches.....Double pole, quick break knife switches & double pole fuses.....

and for each outgoing circuit.....Double pole quick break knife switches & double pole fuses.....

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule.....Yes..... Instruments on main switchboard.....one

ammeters.....one..... voltmeters..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection.....

Earth Testing, state means provided.....Lamps coupled to earth via switches & fuses.....

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..... If circuit breakers are provided for the generators, at what overload current did they open when tested..... are the reversed current protection devices connected on the pole opposite to the equaliser connection.....

have they been tested under working conditions, and at what current did they operate.....

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.....2V..... are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets.....

Yes..... Are paper insulated and varnished cambric insulated cables sealed at the ends.....

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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 In machinery spaces etc. LC clipped to perforated steel trays or direct to steelwork, in accommodation etc. LC clipped to wood battens or direct to wood-work.

Are all lead sheaths, armoring 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 effectually bushed Yes and with what material lead. Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule —. Emergency Supply, state position — and method of control —.

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 —, is an automatic indicator fitted no. Secondary Batteries, are they constructed and fitted as per Rule —, are they adequately ventilated — what is the battery capacity in ampere hours —.

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 Yes, if so, how are they protected Admiralty pattern magazine fittings and where are the controlling switches fitted Pass deck above, are all fittings suitably ventilated Yes, are all fittings and accessories constructed and installed as per Rule Yes. Searchlight Lamps, No. of 2-10", whether fixed or portable portable, 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 no. 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 —. Are motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment —. 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 Admiralty supplied. 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 —, are all fuses of the cartridge type — are they of an approved type —. Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships —. Are the cables lead covered as per Rule —. 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 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	1	20KW	115	174	500	Steam 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 No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	20KW	1	37/093	174	214	20'	VIR	LC AP6192A WE.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	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.			
AUX. SWITCHBOARDS AND SECTION BOARDS ...							
Appl. lighting engine & boiler rooms etc.	1	7/044	20	31	120'	VIR	LC AP6192A WE.
Appl. lighting of forward lighting.	1	7/044	20	31	154'	"	" " " "
N.P.	1	7/044	18	31	20'	"	" " " "

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	1	7/036	15	24	140	VIR	LC AP6192A WE.
NAVIGATION LIGHTS	1	7/006	3	24	180	"	" " " "
LIGHTING AND HEATING							
Engine & boiler rooms	1	7/036	10	24	30	"	" " " "
Appl. accommodation lighting.	1	7/036	10	24	30	"	" " " "
heating.	1	7/036	20	46	20	"	6192
Searchlights	1	7/044	18	31	150	"	6192
Forward lighting (circuit)	1	7/036	15	24	40	"	6193
heating (officers)	1	7/044	10	21	20	"	6192
heating	1	7/044	25	31	16	"	6192
Radio	1	7/044	14	31	210	"	" " " "
R.A.D.A.R.	1	7/044	25	31	160	"	" " " "
4 Amp	1	7/044	10	21	160	"	" " " "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Vent fan 5"	3	1/4	1	3/036	2.5	10'	25	VIR L.C. AP6192A WE.
" " 7 1/2"	1	1/2	1	3/036	4.5	10'	25	" " " "
" " 12 1/2"	1	1 1/2	1	7/036	14	24'	80	" " 6193
Refuj (D.A.R) 7 1/2 cfm	1	1/2	1	3/036	5.2	10'	20	" " 6193
" " 3 1/2 cfm	1	1/4	1	3/036	5.2	10'	40	" " " "

