

# 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.....<sup>44</sup> 44 <sup>41</sup> 19..... Port of Belfast  
 No. in Survey held at Belfast Date, First Survey 29.1.41 Last Survey 30.3.1941  
 Reg. Book. (Number of Visits.....43.....)  
 on the "H.M. Corvette" America" Tons { Gross.....  
 Net.....

Built at Belfast By whom built Harland & Wolff Ltd Yard No. 1098 When built 1941  
 Owners The Admiralty Port belonging to.....

Electrical Installation fitted by Harland & Wolff Ltd Contract No. 3441 When fitted 1941  
 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  
Asdic Fitted

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 yes, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole  
 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 yes 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 In Engine Room Port and Starboard Sides

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 In Engine Room adjacent to generator on  
starboard side

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 Live parts mounted on micanite to admiralty 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 frame effectually earthed.....

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 Triple pole Breakers  
One pole Equaliser, with reverse current, overload and no-volt trips

and for each outgoing circuit L.P. Switch & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule..... Instruments on main switchboard 2  
 ammeters 2 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 Earth Lamps  
Admiralty Admiralty  
 Switches, Circuit Breakers and Fuses, are they as per Rule Pattern, are the fuses an approved type Pattern, 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 136, are the reversed current  
 protection devices connected on the pole opposite to the equaliser connection yes, have they been tested under working conditions, and at what current

did they operate 30AMPS Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Pattern  
all cables

Cables, are they insulated and protected as per the appropriate Tables of the Rules Ad. Patt. 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 14.25 V. 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.....





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 ... ..	2	15	110	136	500	STEAM ENGINE	—	—
EMERGENCY ...								
ROTARY TRANSFORMER								

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MAIN ... ..	2	15	110	136	500	STEAM ENGINE	-	-
EMERGENCY ...								
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GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus spare foot).	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.	Bar.			
MAIN GENERATOR ... No 1 ...	15	1	15	136	152 ✓	35 ft	RUBBER	LEAD COVERED
" " EQUALISE No 1 ...		1	1	—	115 ✓	35	"	" "
" " No 2	15	1	15	136	152 ✓	80	"	" "
" " No 2		1	1	—	115 ✓	80	"	" "
EMERGENCY GENERATOR ...								
ROTOR TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
7 1/2" COLD AIR DELIVERY FAN	1	.35	1	.003	4.4	12 ✓	15	RUBBER	LEAD COVERED
5"	2	.18	1	.0015	2.0	6.1 ✓	20	"	"
5"	3	.18	1	.0015	2.0	6.1 ✓	10	"	"
17 1/2"	4	2.7/3.1	1	.007	20.0	24 ✓	20	"	"
5"	5	.18	1	.0015	2.0	6.1 ✓	10	"	"



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.



Electrical Engineers.

Date Mar. 3/et. 1941

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 102 ft

Minimum distance between electric generators or motors and steering compass 100 ft

The nearest cables to the compasses are as follows:—

A cable carrying 3 Ampères 4 feet from standard compass 10 feet from steering compass.

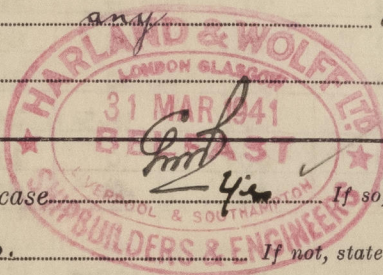
A cable carrying          Ampères          feet from standard compass          feet from steering compass.

A cable carrying 36 Ampères 3 1/2 feet from standard compass 4 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 any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.



Builder's Signature.

Date Mar. 3/et 1941

Is this installation a duplicate of a previous case no If so, state name of vessel V. L. Corbett. "Anchusa"

Plans. Are approved plans forwarded herewith no If not, state date of approval 8/12/39 - 17/10/40

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Generators Yes

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 and in accordance with the Admiralty Statement of Electrical Requirements for A/S Patrol Vessels (Corvettes) of the lobster type. The equipment has been tested under full load and working conditions and found satisfactory. The materials & workmanship are good.

Noted  
7/4/41

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 15 : : When applied for, 19 : :  
Travelling Expenses (if any) £ : : When received, 19 : :

L. Haffner Chas. J. Thomas  
Surveyor to the Registrar of Shipping.

JUN 8 APR 1941

Committee's Minute         

Assigned See Bel JE 12929

5m. 438.—Transfer. (MADE AND PRINTED IN ENGLAND.)  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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