

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

25 AUG 1941

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....19.....

Port of BelfastNo. in Survey held at Belfast Date, First Survey 19 June Last Survey 19 Aug 1941

Reg. Book.

(Number of Visits.....)

on the H. m. Corvette Gowslip Tons { Gross 811.39{ Net 301.14Built at Belfast By whom built Harland & Wolff Ltd Yard No. 1105 When built 1941Owners The Admiralty Port belonging to.....Electrical Installation fitted by Harland & Wolff Ltd Contract No. 13148 When fitted 1941Is vessel fitted for carrying Petroleum in bulk no Is vessel equipped with D.F. no E.S.D. yes Gy.C. no Sub.Sig. noR.D.F. & Asdic FittedHave plans been submitted and approved yes System of Distribution Two wires Voltage of supply for Lighting 110Heating 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 atrip 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 polepositive Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing..... Have certificates oftest for machines under 100 kw. been supplied yes and the results found as per rule yes Are the lubricating arrangements and the constructionof the generators as per rule yes Position of Generators In engine room port and starboard sidesis 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 metalliccontact yes Switchboards, where are main switchboards placed In engine room adjacent to generator onstarboard sideare they in accessible positions, free from inflammable gases and acid fumes yes, are they protected from mechanical injury and damage from water, steamand oil yes, if situated near unprotected combustible material state distance from same horizontally..... and vertically..... what insulationmaterial is used for the panels Live parts mounted on micaite 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 fusesto 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 breakersOne pole Equaliser, with reverse current, overload and no volt tripsand for each outgoing circuit 2 P switch & fusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule..... Instruments on main switchboard 2ammeters 2 voltmeters..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection..... Earth Testing, state means provided Earth lampsSwitches, Circuit Breakers and Fuses, are they as per Rule admiralty are the fuses an approved type admiralty are all fuses labelled asper Rule yes If circuit breakers are provided for the generators, at what overload current did they open when tested 136, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection yes, have they been tested under working conditions, and at what currentdid they operate 25 A.M.P.S Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule admiraltyCables, are they insulated and protected as per the appropriate Tables of the Rules all cables 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 4.25 V., are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets yes Are paper insulated and varnished cambric insulated cables sealed at the ends.....

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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								

## 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 ... .. No. 1 ... ..	15	1	.15	136	152	35 FT	RUBBER	LEAD COVERED
" " EQUALISER No. 1. ... ..		1	.1	—	115	35 "	"	" "
" " " No. 2	15	1	.15	136	152	80	"	" "
" " " No. 2		1	.1	—	115	80	"	" "
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
" " GENERATOR ... ..								

### MAIN DISTRIBUTION CABLES

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

[illegible]

## MOTOR CABLES.

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	27/3.1	1	.007	20.0	24	80		
5"										5	.18	1	.0015	2.0	6.1	10		
5"										6	.18	1	.0015	2.0	6.1	20		



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 Aug 13th 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

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

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 onboard under Special Survey and in accordance with the Admiralty Statement of Electrical Requirements for A/R Patrol Vessels (Corvettes) of the Whale Type

The equipment has been tested under full load and working conditions and found satisfactory.

The materials and workmanship are good.

Notice  
L.P.  
17/8/41.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 15 : - : When applied for, 21. 8. 41

Travelling Expenses (if any) £ : : When received, 19. . . . .

Committee's Minute

Assigned

FRI. 29 AUG 1941

See Bel J.E. 13048

C. S. Thomas

Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register  
Foundation